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3	SPECIFICATION
4	To all whom it may concern:
5	Be it known that John K. Thomasson and Myron L. Mosbarger, citizens of the United
6	States of America, have invented a new and useful invention entitled METHOD AND SYSTEM
7	FOR ASYMMETRIC SATELLITE COMMUNICATIONS FOR LOCAL AREA NETWORKS
8	of which the following comprises a complete specification.
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### METHOD AND SYSTEM FOR ASYMMETRIC SATELLITE

# COMMUNICATIONS FOR LOCAL AREA NETWORKS

<u>Software Appendix</u>. This specification includes a software source code appendix which includes the computer source code of one preferred embodiment of the invention. In other embodiments of the invention, the inventive concept may be implemented in other computer code, in dedicated electronic hardware, in a combination of these, or otherwise. This software appendix is hereby incorporated in this application in its entirety and is to be considered to be part of the disclosure of this specification.

#### I. BACKGROUND OF THE INVENTION

## A. <u>Field of the Invention</u>.

This invention relates to methods and systems for communications between computers and other digital information devices. More particularly, this invention relates to communications between computers making use of digital satellite communications channels and computer local area networks, to provide access to the internet, to facilitate data and software distribution, and/or to enhance the capabilities of intranet systems for computers with connections to local area networks.

#### B. Description of Related Art.

It is well established that computers can communicate across local or wide area networks. It is also well known that satellite receivers and transmitters can be used to transfer high volumes of digital data. Some efforts have been made to provide communication systems which can be

used to transfer data between computer processors using a variety of communication mediums (see Moura et al., U.S. Patent No. 5,586,121). However, it is desirable to provide a high-speed, low-cost, satellite-based communication system which is designed to optimize the use of digital satellite systems for local area networks (LANs). Optimizing the use of the digital satellite channel is best accomplished through the use of asymmetrical communications between the computer server and the internet as opposed to symmetric communication, in which substantially the same data rates and the same media are used for both the transmit direction and the receive direction, and as opposed to communication system which employ asymmetrical communication between the local area network and the server. Particulary, asymmetrical systems which require upstream router hardware, "backbone" network hardware, or dial-up internet service providers (ISPs) to create a "hybrid" asymmetrical local system with a symmetrical local area network. Since calls to the internet can efficiently be made at relatively low speeds, and since using digital satellites as a communication medium provides the capability of very high speed responses from the internet, an asymmetric transmission from the internet across the digital satellite to the LAN server provides the greatest system efficiency.

The most common method of sending and receiving computer information today is a land line service (i.e., a switched service, a dedicated line, and/or an analog modem, each using telephone wire lines). However, such a system encounters may problems, including slow transmission speeds, high access costs, lack of available wire lines, and internet congestion.

Satellite communication receivers are commonly used to create or supplement existing private wide area data and video networks. When used as an extension to a data network, these satellite links may interconnect local area networks. Satellite links can provide many advantages

over land line service, including potentially high speed data transmission and wide availability.

data. The expense of the hardware has made the use of satellite communication channels

However, typical satellite links have required expensive hardware both to transmit and to receive

generally unavailable to those who most need it.

This invention addresses these issues by providing a method and system for providing the advantages of satellite communications for high volume download data packets and typically using a relatively low speed land line for the low volume upload data request packets. By capitalizing on the asymmetrical nature of internet dataflow, this invention provides an efficient solution for LAN to satellite internet communications.

For general background material the reader is directed to U.S. Patent Nos. 5,095,480, 5,379,296, 5,423,002, 5,488,412, 5,534,913, 5,539,736, 5,541,911, 5,541,927, 5,555,244, 5,583,997, 5,586,121, 5,594,872, 5,610,910, 5,610,920, 5,631,907, 5,659.692, 5,668,857, 5,673,265, each of which is hereby incorporated by reference in its entirety for the material disclosed therein.

#### II. SUMMARY OF THE INVENTION

This invention is a method and system for efficiently communicating between networked computers using a high speed satellite communications channel. It is an object of this invention to provide a high speed satellite based information delivery system for local area network connectivity to the internet, for file, data, software, and/or multimedia distribution.

It is a further object of this invention to provide a data transmission system particularly well suited to remote location and/or locations where access to high speed data mediums is unavailable or prohibitively expensive.

It is a further object of this invention to provide a high speed data transmission system that utilizes a highly flexible and adaptable software method.

It is a further object of this invention to provide a high speed data transmission system that communicates with the internet while being internet service provider (ISP) independent.

It is a further object of this invention to provide a high speed data transmission system that makes use of digital satellite communications technology to enhance data bandwidth, channel reliability, and accessability.

It is a further object of this invention to provide a high speed data transmission system that utilizes a software method capable of operating on a wide range of server operating systems, including Windows 95, Windows NT, NetWare, Linus, Macintosh, present and future versions and the equivalents.

It is a still further object of this invention to provide a high speed data transmission system that is compatible with a wide range of communication protocols and/or mediums, including ISDN, T1, modem, dedicated phone line, switched phone line, frame relay and ATM.

It is another object of this invention to provide a method for permitting many client computer systems, which may be operating system independent and operating on one or more local area networks, to communicate over a single satellite dish, at very high data rates.

It is a further object of this invention to provide a method using software which can operate on a wide variety of hardware, operating system, and software platforms, including, but not limited to: Macintosh, Linux, Unix, OS/2, and Windows NT.

These and other objects of this invention are readily apparent to individuals of ordinary skill in the art upon further study of the drawings, detailed description, claims and abstract that

	1	are inc	cluded in this patent disclosure.
	2	m.	BRIEF DESCRIPTION OF THE DRAWINGS
	3		Figure 1 depicts a top level rendering of the major component parts of the communication
	4	system	n invention.
	5		Figure 2 depicts a preferred embodiment of the architecture of the invention.
	6		Figure 3 depicts the preferred flow of data through the several protocol transitions in a
	7	prefen	red embodiment of the invention.
der den den der jag in den een een een een oor een de	8		Figure 4 depicts a top level flow diagram showing the primary steps of the process flow
	9	for an	example single received data packet in the preferred method of the invention.
	10		Figure 5 depicts a detailed flow diagram showing the package delivery major step of the
	11	prefer	red embodiment of the invention.
	12		Figure 6 depicts a detailed flow diagram showing the internet protocol (IP) major step of
	13	the pro	eferred embodiment of the invention.
	14		Figure 7 depicts a top level flow diagram showing the primary steps of the process flow
	15	for an	example transmission of internet protocol datagrams.
	16		Figure 8 depicts additional detail showing the transfer queue (TxQ) thread processing of
	17	the file	ter queue step of the transmission portion of the invention.
	18		Figure 9 depicts additional detail showing new queue (NewQ) thread processing of the
	19	filter o	queue step of the transmission portion of the invention.
	20		Figure 10 provides an example embodiment of the user interface of the invention.
	21	IV.	DETAILED DESCRIPTION OF THE INVENTION
	22		This invention is a system and method for asymmetric communications, between a

remote information provider and a client computer system residing on a local area network (LAN), using high bandwidth digital satellite communication channels. The preferred embodiment of the method of the invention is performed in software residing on a local computer system. The current preferred embodiment of the method software in written in Intel 386 assembly code, C and C++ computer languages. The reader is directed to the appended computer software appendix for a complete disclosure of the software making up the current best mode of the method of this invention. Alternatively, those of ordinary skill in the art could practice this method in a wide variety of procedures, computer languages, or even in dedicated electronic hardware. Therefore this patent should not be read to be limited to the specific embodiment of the provided software appendix. Rather, this software source code is provided to fully describe one preferred embodiment of the method of this invention. Also, in its preferred embodiment, this invention performs in association with DirectPC satellite receivers, Novell NetWare network software, and standard off-the-shelf computer hardware. Other alternative satellite receiver systems, networking software and computer hardware could easily be substituted by those of ordinary skill in the art without departing from the essence of this Similarly, the preferred embodiment, described in the following detailed invention. description, includes a number of components and method steps which may not be absolutely necessary in other embodiments of the invention. The reader is, therefore, directed to the claims for a description of the range of this patent.

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Figure 1 depicts a top level rendering of the major components and communication paths constituting the system 100 of this invention. A client computer 101a-g is shown clustered with other client computers on a local area network (LAN) 102. The client computer 101 uses

standard off-the-shelf commercially available software, while the server provides the user interface to the desired information. The LAN 102 provides the means for communicating from the client computer 101 to a server 103, which provides the communication interface outside the LAN. The server 103 receives data from a digital satellite receiver 110, depicted here as a satellite dish, across a signal antenna waveguide 115. The digital satellite receiver 110 receives the digital information from a downlink channel 111, which is transmitted from a geosynchronous satellite 112. The satellite 112 receives the information from a network operations center 114 via an uplink channel 113. The server 103 generally uses the above described communications channel from the network operations center 114 for downloads of information, such as internet web page data, software updates, data file distributions and other similar data packages. Alternatively and in addition, this invention provides the capability of using another satellite communication channel to send requests from the client computer 101 to the network operations center 114. This is a particularly useful feature for access from remote locations. Use of the satellite communication channel provides important benefits to the information requestor at the client computer 101, including very high speed data transfer, the ability to receive broadcast software distributions which in turn means the requestor is likely to receive such distributions in a more timely and cost effective manner, and the ability to have internet access from locations where wired communications channels, such as telephone lines, are either unavailable, overly burdened, or prohibitively expensive.

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Figure 1 also shows the preferred, and more typical request communications channel. In this preferred request channel the client computer 101, connected through the LAN 102, through the server 103, sends a request via modem 105, which typically is connected to the server via a

standard serial RS-232 cable 104. The modem 105 in turn is connected to standard telephone land lines 107 via a standard phone cable 106. The request is passed across the land lines 107 to the internet service provider 108, which communicates to the internet 109.

This invention is designed to be highly flexible and adaptable to different client computer 101 configurations, both hardware and software as well as with and to a wide variety of communication interfaces. Computer hardware such as personal computers, workstations, mini computers, mainframe computers and special purpose computational equipment can be functional client computers 101 as intended within this patent specification. Similarly, computer system operating systems which are supported and used in the preferred and alternative embodiments of this invention included but are not limited to: Windows 3.1, Windows 95, Windows NT, Macintosh, Linux, Unix, OS/2, NetWare, their current versions, past versions, and equivalent future versions and the equivalent. Communications interfaces that are or can alternatively be used with or as a part of this invention include routers, ethernet, ISDN equipment, switched 56, T1, Token Ring, frame relay, modems, satellite and the equivalent.

The advantage of this preferred mode of operation is that the communication channels are used in the most efficient manner. Typically, request packets are relatively small and can be transferred with minimal impact across land lines. While downloaded packets can be very large with significant amounts of highly concentrated graphics. For the vast majority of client computer 101 users the limitation of internet or the ability to receive other downloaded file information is the time it takes for the download transfer to be accomplished. This problem is solved by transferring the potentially very large downloaded packets (files, graphics and other information) using the high bandwidth satellite channel.

Figure 2 depicts a preferred embodiment of the software architecture of the invention. As
shown, in its preferred embodiment, this software operates in association with several standard
commercially available software packages and protocols, including Novell NetWare, Ethernet,
Token Ring, TCP/IP, IPX and AIO. This software method of the invention also makes use of
certain commercially available hardware component, as shown in figure 2, including: the satellite
receiver 110, a network router 205 and a modem 104. The reader should understand that this
figure 2 presents a single simplified embodiment of the invention. Alternative embodiments
could use alternative software packages and protocols, as well as different or multiple hardware
components. Figure 2 also shows a single embodiment of the path of information through the
various software and hardware components. Download information packets are received by the
satellite receiver 110, which in turn communicates electronically with the DPC LAN 210, a
commercially available hardware driver. The information next passes through the LSL NLM
202, a routine commercially provided by Novell Incorporated which acts as an intermediary
between the driver and the protocol stack to control information packet transfer. Next, the
TCP/IP 203 protocol stack receives the information packet. The TCP/IP 203 protocol stack is
capable of communicating alternatively with a modem 104, via the LSL NLM 202; the
DPCAGENT 207 routine, core to this invention; the AIO 208, a Novell product for managing
serial communications; and through the AIOCOMX 209, which is the asynchronious
input/output interface to the client computer hardware communication ports, or with router 205,
via the LSL NLM 202, the DPCAGENT 207, the LSL NLM 202 and an ethernet driver 204.
Alternative embodiments of this invention may make use of other standard commercially
available communication protocols, drivers, hardware and software

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Figure 3 depicts the flow of information in the preferred embodiment of the invention from the satellite 112 to the client computer 101 as well as the flow of information back to the internet 109 from the client computer 101. Data is received 301 from the satellite 112 by the satellite receiver 110. Next, the data is transmitted to and received by the server 103 hardware 302 where it is placed in on-board memory. The DPC.LAN DirecPC network card driver retrieves the data packet from hardware memory 303. Next, if the packet is identified as an internet protocol (IP) format packet it is delivered to the IP protocol stack 304. If the packet is identified as a transmission control protocol (TCP) segment, it is delivered to the TCP protocol stack 305. TCP delivers the data packet to a proxy gateway 306. The proxy gateway forwards the data packet to the client computer via the local area network and standard LAN protocol controllers 307. Next, the client computer processes the data and generates a return packet 308. The return packet is delivered to the proxy gateway via the local area network and the standard LAN protocol controllers 309. The return packet is forwarded to the TCP stack 310, and next to the IP stack 311. The IP delivers the return packet to the DPCAGENT.NLM process 312, which delivers the return packet data to a transmit device, such as a modem or a router 313.

Figure 4 depicts a top level flow chart rendering of the major steps of the process flow for a single downloaded data packet section of the invention. Initially the downloaded packet is received 410 by the DirecPC circuit card. This circuit card next transfers the packet data to the DPC.LAN routine 402. In the preferred embodiment of the invention, as shown in the source code appendix, the DPC.LAN routine is denoted as DriverISR proc. This process includes the steps of setting up the RAM adapters and establishing a timestamp for the packet. Further detailed information on the functioning of this routine is found within the software appendix.

Next, a test is made 403 as to whether the received data is a package delivery or an internet
delivery. If the received data is package data, it is delivered 404. Package data delivery includes
and provides the capabilities of simultaneously broadcasting software upgrades or data files to
many client computers, potentially throughout any one continent. Client computers can also
request the package data delivery service to retrieve a package of information through the client
accessible interface of the invention. If the received data is internet data, then internet data
delivery is made 405. Additional detail on steps 404 and 405 follows in this specification.

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Figure 5 depicts a detailed flow chart of the preferred embodiment of the package delivery major step of the method of the invention. The data packet is transferred to the DPCAGENT,NLM process 501. This process is a NetWare Loadable Module (NLM) process running on NetWare. After the data packet is received 501, a test is made to determine whether the packet will update the catalog 502. If the catalog will be updated, then it is updated 503 using off-the-shelf commercially available software and the process of package delivery for that packet ends 511. If, however, the catalog will not be updated, then a test is performed to determine whether the site will be updated by the data packet 504. Site updates include modification of such site parameters as NOC versioning, encryption key updates, and becoming a member of a group or leaving a group. If the site will be upgraded, then the process performs the upgrade of the site parameters 505, and the process for this packet ends 511. If the site will not be updated, then the package file is found and stored on the server disk 506. A test is then made to determine whether the end-of-file has been encountered 507. If the end-of-file has not been encountered then the process for that packet ends 511. However, if the end-of-file has been encountered, then a test is made to determine whether there are any "holes" in the file, that is

whether the file is incomplete 508. If no holes are found in the file, it is marked as complete 509 and the process for this packet ends 511. If "holes" are found in the file, then a request for partial retransmit of the missing packet is sent 510, at which point the process for this packet ends 511.

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Figure 6 depicts a detailed flow chart of the preferred embodiment of the internet protocol delivery major step of the method of the invention. Internet package delivery or Internet Protocol (IP) delivery is a major function of the invention providing the capability of receiving large files from an internet source at a very high speed. First the data packet is transferred to the DPCAGENT.NLM routine 601. A test is made to determine whether the data is in transmission control protocol (TCP) 602. If the data is not in TCP protocol then the data packet is transfered to the Internet Protocol (IP) stack 609 and the process for this data packet ends 610. If the data is in TCP form then a test is made to determine if a "SYN" or beginning of section is being initiated 603. If no "SYN" is detected, then a test is made to determine if an end of session, commonly a FIN or RST command, has been encountered 605. If no such end of session is found, then the data packet is transferred to the IP stack 609 and the process for this packet is ended 610. If, however, a "SYN" is detected, then the inquiry is made as to whether a connection slot is available 604. Connection slots perform the function of managing the number of subscribers permitted to have access to the communication network at a given time. If a connection slot is available, it means that the customer still has client computer access capacity. If a connection slot is available, a connection slot is allocated 607 and the data packet is transferred to the IP stack 609 and the process ends. If it is determined that a connection slot is not available, then the data packet is dropped or discarded 606 and the process for this packet ends 610.

Figure 7 depicts a top level flow chart showing the primary steps of the preferred embodiment of the transmission of internet protocol datagrams (or packets) method steps of the invention. Packets that are received from the IP stack are stored on the NewO 701. Next the packet is removed from the NewQ and tested against the each and every packet on the TxO to determine if any TxQ data is redundant or dated and should be replaced 702. If a comparison of the packet with the TxQ packets finds the updated or "newer" information, then the TxQ packet data is replaced by the current packet data. This approach is essential to maintaining the fairness of the TxQ packet transfers while ensuring that good data is transmitted thereby improving the transmission efficiency of the system. A test is performed to determine if the packet was included in the TxQ 703. If the packet was not included then the current or NewQ head packet is dropped or discarded 704. Otherwise, if the packet was included, a test is performed to determine if the NewQ is empty 705. If the NewQ is not empty, the process returns to the test NewQ step where a new NewQ head packet is compared against the TxQ. If, however, the NewQ is empty, then the process enters a wait state 706 where a trigger, that is meeting a specified condition, such as new packet on the NewQ or exit command, is required before the process restarts at the testing step 702.

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Figure 8 depicts a detailed flow chart showing the transfer queue (TxQ) thread processing steps of the transmission portion of the invention. In the preferred embodiment of the invention processing the TxQ and processing the NewQ are independent threads of the program which are capable of running independently on one or more computer processors. In processing the TxQ it is first determined whether the TxQ is empty 801. If the TxQ is empty, then the process enters a wait state 805 where a trigger, such as a polling timer, a transmission complete signal, or an exit

command, is required to resume processing. Note that in the preferred embodiment of the invention the expected wait time is calculated in this step and the polling time is initiated. If the TxQ is not empty, a test is made to determine if the head packet of TxQ is too old 802. In the preferred embodiment of the invention, too old is defined as a packet that has been in the TxQ for more than sixty (60) seconds. Alternative embodiments could employ any practicable time period. If the TxQ head packet is too old, then it is discarded 806 and the process returns to the TxQ empty test 801. If the TxQ head packet is not too old, then a test is made to determine if the media, or communication conduit, is capable of transferring another packet of data 803. If the media is capable of transferring another packet, then the packet is written to the transmission device 804, otherwise, the process enters the wait state 805 and waits for a trigger as described above.

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Figure 9 depicts a detailed flow chart showing the new queue (NewQ) thread processing steps of the filter queue step of the transmission portion of the invention. The filter queue processing step of the invention, which is the core of step 702, is important in providing the communication efficiency which is one of the key objectives of this invention. A test is made to determine whether the NewQ is empty 901. If the NewQ is empty then a wait state is entered 902 where a trigger, such as new packet available in NewQ, exit or timer count, is required to resume the process. If NewQ is not empty, then the head of NewQ is renamed as ECB 903, a packet holding variable. The maximum age of the ECB packet is set 904 and a test is performed to determine if the ECB packet is fragmented 905, that is whether ECB is only a partial packet, which in the current best mode of the invention is not inspected. If ECB is fragmented, then it is appended 906 to the TxQ for transmission. If ECB is not fragmented, then a test is performed to

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determine if it is a TCP packet 907. If it is not a TCP packet, then the test is made to determine if it is a UDP packet 980. If it is not a UDP packet or a TCP packet then it is appended to the TxQ for transmission 906. If, however, it is a UDP packet, a test is made to determine if ECB is a duplicate of a DNS request 909. If ECB is not a duplicate of a DNS request, then the packet is appended to TxQ 906. If ECB is a duplicate of the DNS request, then it is discarded 910 and the process returns to testing to see if NewQ is empty 901. If it is a TCP packet, then a test is made to determine if ECB is a "SYN" or beginning of session packet 911. If ECB is a "SYN" packet, then a test of whether a connection slot is available is made 912. If a connection slot is available it is allocated 913. If, however, a connection slot is unavailable ECB is discarded 910. If ECB is not a "SYN" packet then the test is made to determine if ECB is a session abort packet (RST) 914. If ECB is found to be a session abort packet TxQ is cleared of all matching packets 915 and a test is made to determine if ECB will terminate a session 916. If ECB is not a session abort then the step of clearing all matching packets 915 is skipped. If the ECB is found to terminate a session, then the a connection slot is released 917. A test is then performed to determine if ECB is void of user data 918. If it contains user data then it is appended to TxQ 906. Otherwise, the End-of-Window-Position (EOWP) is computed 919 and a test is made to determine if ECB's EOWP is greater than the matched TxQ packets 920, if not ECB is discarded 910, and if so, ECB has its EOWP stored in matched TxQ 921 and then ECB is discarded 910.

Figures 10a-l show various screen shots demonstrating the user interface of the invention. Figure 10a shows the DCPAGENT routine options for user selection as well as the digital package delivery queue screen. Figure 10b shows a package of data in transit as displayed on the user screen. Figure 10c shows the main screen of the package delivery interface. Figure 10d

shows package statistics as displayed for user information. Figure 10e shows configuration control screens where the user can modify certain modem, package delivery and provider configuration information. Figure 10f shows the package delivery configuration editor screens with the information that can be user modified. Figure 10g shows the login script editor and the provider configuration editor. Figure 10h shows additional provider configuration editor screens showing the configuration of an outbound protocol case. Figure 10i shows the dish or antenna pointing adjustments screens. Figure 10j shows the satellite dish signal strength meter for dish alignment. Figure 10k shows the adapter information screen, here showing site information including the card hardware serial number, the site identification, the status of keys, and a list of communities or groups in which the user is participating.

# **COMPUTER SOFTWARE APPENDIX**

- The following computer software appendix is being deposited as part of the specification
- 3 of this patent application under 37 C.F.R. 1.96 as original copies from computer printout and as
- 4 two sheets per one patent specification page for the ease of the publication office.

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***************************************	0xab7a,	
#define AGENT_VERSION InxMSG("1.20 ", 173)	0xcf44, 0xfddf, 0xec56,	
*************	0x4014, 0x519d, 0x2522, 0x34ab, 0x0630,	
* Global variable used by DPCAGENT.C	0x620e, 0x5095, 0x411c, 0x35a3, 0x242a, 0x16b1,	
	0xcd54, 0xb9eb, 0xa862, 0x9af9, 0xb691, 0xr22c, 0xd3af, 0xc132	
/* Resource Tac variables	0x19c9, 0x2b52, 0x3adb, 0x4e64, 0x5fed, 0x6d76,	
•	Oxflbf,	
LoadDefinitionStructure *NLMHandle	0xb483, 0x8618, 0x9791, 0xe32e, 0xf2a7,	
struct ResourcelagStructure *allocRTag = 0;	0x0a50, 0x1bd9, 0x6f66, 0x7eef, 0x4c74,	
ResourceTagStructure *AESTag = 0;	UXDD8B, UXB4UZ, UX9599, UX8710, OXf3af, Oxe226, Oxd0bd, Oxc134, Ox39c3, Ox284a, Ox1ad1, Ox0b5R, Ox7697 Ox686s, Ox686s, Oxf87,	
struct ResourceTagStructure *asyncIOTag = 0;	0xd785, 0xe51e, 0xf497, 0x8028, 0x91a1, 0xa33a,	
* NUT and screen ID variables.	0x4a44, 0x5bcd, 0x6956, 0x78df, 0x0c60, 0x1de9, 0x2f72, 0x3efb, 0xd68d, 0xc704, 0xf59f, 0xe416, 0x90a9, 0x8120, 0xh1hh 0x2212	
1	, 0x4b4c, 0x79d7, 0x685e, 0x1ce1, 0x0d68, 0x3ff3,	·
dle "Volnamare" - Nobbi	e, Uxf687, Oxc41c, Oxd595, 6, Ox7acf, Ox4854, Ox59dd,	
if DEBUG_ALL	0xc514, 0xb1ab, 0xa022, 0x92b9, 0x495c, 0x3de3, 0x2c6a, 0x1ef1	
struct ScreenStruct *DebugScreenID = 0; /* for OutputToScreen */		
#endif WORD		
creen Height (25)	/ Mulu Scatistic globals "/	
WORD ScreenWidth = 0; /* Green Width (80)	int GenericDescriptionTable(22+8) =	
HackgroundPortal		
round Portal */	("Total packets	
* Process and thread variables.	InxMSG("No ECB available count:", 148),	
		•
	_	
INCEL CO MESSAGES "/ DPCAGENTEID = 0:	InxMSG("Receive packet too big count:", 215),	
ain Handler thread PID */	("Receive packet too small count:", 216), ("Send nacket miecellaneome errore:", 217)	
1	_	
/" racket namuler inread FID "/ [LONG	J.	
odem Handler thread PID */	InxXXSG("Hardware receive mismatch count:", 201)	
LONG  LONG  A Access through DID  DPCACCESSPID = 0;	("Total send OK byte count low:", 229	
DPCInetPID = 0;	InxMSG("Total send OK byte count high:", 230), InxMSG("Total receive OK byte count low:", 231)	
urbo Internet thread PID */	("Total	
	("Total group address send count:", 233),	
All threads must exit	InxMSG("Total group address receive count:", 251), InxMSG("Adanter reset count:" 252)	
•	("Adapter	
	("Adapter queue depth:", 255),	
	InxMSG("Send OK single collision count:", 159), InxMSG("Send OK multiple collision count:", 256)	
* CRC table used by calcoro(),	("Send OK but deferred", 264),	
Statis insigned short principles	InxMSG("Send abort from late collision", 265),	-
0x2312, 0x329b, 0x4624, 0x57ad, 0x6536, 0x7	("Send abort	
Oxaf5a, Oxbed3, Oxca6c, Oxdbe5, Oxe97e, Oxf	("Send abort from excessive deferral", 268)	
0x0108, 0x3333, 0x2218, 0x3083, 0x4/20,	InxMSG("Receive abort from bad frame alignment", 269)	

Thu Jul 17 14:46:11 1997 dpcagent.c and the leaders of Thulbut 17 14:46:11 1997	hullullinitain611 1997 dpcagent.c
4 6 0 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	rnResources(1);
	static void NoSortHandler(LIST *head, LIST *tail, NUTInfo *handle)
( LONG portalNumber ) = NULL;	head = head; tail = tail; handle = handle;
<pre>struct DOSCountryInfoStruct GblDOSCountryInfo; int DebugFlag = FALSE;</pre>	return;
<pre>/* The array nDeclination contains the Declination in degrees to add or * subtract from true azimuth to get magnetic azimuth. * The value 0 means that the location in not in mainland US */</pre>	/*************************************
static float nDeclination[]=  ( 0, 0, 4, 1, 0, 0, 0, -8, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,	Description: This routine calculates a CRC value for the text passed in. It uses a CRC substitution table for effeciency. Its used by the Slip transmit routine.
0, 12, 9, 6, -1, -4, -6, -9, -11, -12, -14, -16, -17, 18, 15, 0, 7, 2, -3, -6, -9, -12, -13, -15, -18, -19, 0, 0, 0, 0, 0, -1, -6, -9, -13, -15, -18, -20, -21,	* Input: * crc - Initial value of the C
	Cp te CRC against
#ifder LOG_ECB_ACTIVITY int DPC_TGID; Loghandle LogClientHandle; EventHandle LogECBHandle; #endif /* Log_ECB_ACTIVITY */	len string  Output: nothing
	Returns: 16-bit CRC value
* Local function prototypes.	
d ReturnResources (int sig);	WORD calcerc(WORD crc, BYTE *cp, LONG len)
ExitHandler(void *handle)	while(len) crc = (crc >> 8) ^ crctab[(crc ^ *cp++) & 0xff];
* Description:  This routine is called when the user hits Alt-F10 to exit  the utility. We will attempt to verify with the user that  they really want to exit.	return (crc);
* Input: * handle - NVT handle *	SlipSend(char *pdata, LONG sz,
* Output:	
* Returns: * nothing	Description: This routine builds a SLIP envelope around the message passed in, escapes any HDLC characters in the message, and sends it to the modem.
itHandler(void *handle)	
<pre>if (NWSConfirm(InxMSG("Exit DSDEBUG?", 88), 0, 0, TRUE, NULL,</pre>	to send sz - length of the message passed in
	Table 4:

.

```
Page 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - Pointer to where to store control entr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Pointer to where to st
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWsprintf( tmpBuf, format, number);
for ( i = ( length = CStrLen( tmpBuf ) ), found = 0; i >= 0; i~- )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This routine returns the DPC MLID logical board number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                and control entry address to be used to send IOCTL requests to the DPC mlid. The IoctlMlid pragma can then be used to make the request.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CreateStringWithCommas( LONG number, BYTE *buffer, char *format )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        board and controlEntry filled in if successful
                                                                                                                                                                                 /* Finish packet off with SLIP END character */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if MLID is active
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   LONG *controlEntry)
     dpcagent.c
                                                                                                                                                                                                                                                                 /* Send message to the modem thread
DloSend(slip_data, os, timeout);
                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG *controlEntry)
                                                                                   *po = *pi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *controlEntry = DIOControlEntry;
                                            break;
                                                                                                     break;
                                                              default:
                                                                                                                                                                                                                                                                                                                                                                                                                            DPCGetBoard (LONG *board,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    commasAdded = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LONG DPCGetBoard (LONG *board,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          controlEntry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tmpBuf[ 128
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *board = DIOBoard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (DIOBoard == 0)
                                                                                                                                                                                                                                                                                                                                                                                       EXPORTED FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *tmpPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  length;
found;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    board
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(0);
                                                                                                                                                                                                     *po = END;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ore board number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             y address
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void
                                        - 1 if send to cas, 0 if
                                                                               - inactivity timeout in seconds
                                                                                                                                                                                                                                     /* Escape any special SLIP characters that may be in the message */ for (is = 0, os = 1; is < (tmplen + 2); is++, os++, pi++, po++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CMovB(pdata, txcas.data, sz);
txcas.length = sz + (txcas.data - ((BYTE *)&txcas));
tmplen = txcas.length;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CMovB(pdata, txhub.data, sz);
txhub.length = sz + (txhub.data - ((BYTE *)&txhub));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      txcas.length |= 0x8000;

orc = calcorc(INITCRC, (BYTE *)&txcas, tmplen);

txcas.data[sz] = orc & 0xff;

txcas.data[sz+1] = (orc >> 8) & 0xff;

pi = (BYTE *) &txcas;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 crc = calccrc(INITCRC, (BYTE *)&txhub, tmplen);
                                                                                                                                                                                                                                                                               void SlipSend( char *pdata, LONG sz, int cas, int timeout)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                txhub.data[sz] = crc & 0xFF;
txhub.data[sz + 1] = (crc >> 8) & 0xff;
dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    txhub.filler1 = txhub.channel =
txhub.control = 0x8000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Start out with SLIP start character
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *po = ESC_END;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *po = ESC_ESC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* initialize cas transfer */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* initialize hub transfer */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             po++ = ESC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *po++ = ESC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tmplen = txhub.length;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1++80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pi = (BYTE *) \& txhub;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $ + + SO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           case ESC:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         case END:
                                                                                                                                                                                                                                                                                                                                                                                                                          BYTE slip_data[3072];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                switch (*pi)
                                                                                                                                                                                                                                                                                                                      LroEsPkt_t txcas;
LroAsPkt_t txhub;
                                                                         timeout
                                                                                                                                     nothing
                                                                                                                                                                                                nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      po = slip_data;
*po++ = END;
                                                                                                                                                                                                                                                                                                                                                                                                      BYTE *pi, *po;
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                               LONG tmplen;
                                        ದಿಡಿಟ
                                                                                                                                                                                                                                                                                                                                                                                                                                              int is, os;
                                                                                                                                                                                                                                                                                                                                                                                 WORD crc;
                                                                                                                                                                             Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (cas)
                                                                                                                    Output:
                                                         to hub
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else
                                                         send
```

```
Page 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ** The values for portal->portalHeight and portal->virtualHeight are the ** only two that we deal with that are 1-based. All the rest are 0-base
                                                                                                                              GblDOSCountryInfo.decimalSep[ 0 ],
                                                                                                                                                                                                                                                                          .
buff,
MSG("%2d%c%02d%c%02d%c%01d", 294),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  seconds,
GblDOSCountryInfo.decimalSep( 0 ),
                                                                                                                                                                                                                                                                                                                                                                                                GblDOSCountryInfo.decimalSep[ 0 ],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GblDOSCountryInfo.decimalSep( 0 ],
                                                       0 ),
                                                                                             0),
                                                                                                                                                                                                                                                                                                                        GblDosCountryInfo.timeSep[ 0 ],
                                                                                                                                                                                                                                                                                                                                                              GblDOSCountryInfo.timeSep[ 0 ],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GblDOSCountryInfo.timeSep[ 0 ],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           buff,
MSG("%2d%c%02d%c%01d", 295),
                                                         GblDOSCountryInfo.timeSep[
                                                                                             GblDOSCountryInfo.timeSep[
    dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MSG("$2d%c%01d", 296),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     updateDisplay = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            void HandleScrollablePortal (PCB *portal)
                                                                           minutes,
                                                                                                               seconds,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               minutes,
                                                                                                                                                                                                                                                                                                                                                                                  seconds,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     seconds,
                                                                                                                                                                                                                                                                                                                                                 minutes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else if ( minutes > 0 )
                                                                                                                                                 tenths
                                                                                                                                                                                                                                                                                                                                                                                                                    tenths
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tenths
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tenths
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                virtualHeight;
                                                                                                                                                                                                                                                                                                             hours,
                                                                                                                                                                                                    else if ( hours > 0 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       portalHeight;
bottomLine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                escapeFlag = 0;
                                                                                                                                                                                                                                        NWsprint f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWsprint f
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWsprint £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  keyType;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        curPos;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        vLine;
 F. L. J. S. C. L. L. Page 3 (South d'17) 4 466.111997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    е
С
                                                                                                                                                                   <u>..</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int e
LONG
BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ਰ
                                                                                                                                                                                                                                                                                    tmpBuf[ i + 1 ] = GblDOSCountryInfo.thousandSep(
                                                                                                                                                                                                                                                                                                                                                                                                                            ** Adjust the length of the string back to its original if there are
                                                  if ( tmpBuf[ i ] >= '0' ) && ( tmpBuf[ i ] <= '9' ) )
                                                                                                                                                                                             /* shift the string one to the right */
                                                                                                                                                                                                                                 MSG("%d %c%02d%c%02d%c%01d%, 293),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for ( i = 0, tmpPtr = tmpBuf; i < commasAdded; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FormatElapsedTime ( LONG seconds, LONG tenths, BYTE *buff )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ascBuf = asctime(localtime((time_t *)&seconds));
CMovB(ascBuf, buff, 26);
buff[24] = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GblDOSCountryInfo.timeSep[ 0 ],
dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SecondsToDateAndTime( LONG seconds, BYTE *buff)
                                                                                                                                                                                                                                                                                                                          commasAdded++;
                                                                                        /* we have a digit */
                                                                                                                       if ( ++found > 3 )
                                                                                                                                                              found = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if ( *tmpPtr == ' ')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        minutes, hours, days;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* convert secs to minutes */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CStrCpy(buffer, tmpPtr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tmpPtr++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          minutes = seconds / 60;
seconds = seconds % 60;
hours = minutes / 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              minutes = minutes % 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                days = hours / 24;
hours = hours % 24;
                                                                                                                                                                                                                                                                                                                                                                                                                                            ** leading spaces.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NWsprint£
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (days > 0)
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char *ascBuf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LONG
                                                                                                                                                                                                                                                                                                      0 );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  void
```

Thu Jul 17 14:46:11 1997	dpcagent.c	Page 41 Thu Ph 17 14:46, 11 1997	dpcagent.c Page 12
h ** the rest in the PCB	. copies of chese variables adjust structure.		*/ portal->showScrollBars  = curPos << VERTICAL_SCR
		OLL_SHIFT;	
virtualHeight = p portalHeight = po	: = portal->virtualHeight - 1; = portal->portalHeight - 1;		) NWSUpdatePortal( portal);
/* /* Other initializations	zations		updateDisplay = FALSE;
*		NWSGet	NWSGetKey( &keyType, &ch, NUTHandle );
bottomLine = virt	virtualHeight - portalHeight;		( Keytype )  Case K_UP:
while( escapeFlag) {	(4		/* Scroll the portal up one line.
if ( upda	if ( updateDisplay == TRUE )		
	*/		<pre>if ( portal-&gt;virtualLine &gt; 0 ) </pre>
aw the	** The last iteration of the loop made a change, so redr		/* /* We're not at the top, so we can scrol
*	** portal.	1 up one line.	
	f (por		<pre>portal-&gt;virtualLine; portal-&gt;cursorLine = portal-&gt;virtualLine</pre>
	<pre>** Adjust the vertical thumb on the right border</pre>	•	updateDisplay = TRUE;
<u> </u>	/*	break;	
	<pre>if ( portal-&gt;cursorLine == 0 )</pre>		case K_DOWN:
	<pre>if ( virtualHeight &lt;= portalHeight )</pre>		/* ** Scroll the portal down one line. */
			<pre>if ( portal-&gt;virtualLine &lt; bottomLine ) {</pre>
		roll down one line.	/* ** We're not at the bottom, so we can sc */
-	<pre>vLine = bottomLine; if (vLine == 0) if (vLine == 0)</pre>		<pre>portal-&gt;virtualLine++; portal-&gt;cursorLine = portal-&gt;virtualLine</pre>
/* avoid divide by 0 */	לבוום א		updateDisplay = TRUE;
	curPos = ( portal->cursorLine *	break,	
לאודיה / / החד			case K_PUP;
	/* /* Erase the vertical thumb at its last position		/* ** Move the portal up one page. */
•	· •		<pre>if ( portal-&gt;cursorLine &gt; 0 ) </pre>
	portal->showScrollBars &= ~VERTICAL_SCROLL_MASK;		LONG delta;
2	/* ** Display the vertical thumb at its new positio		/* ** We're not at the top, so we can move
<u>.                                    </u>		מבי ייסאפאפוי אפ ייפפפי	<del></del> ;

Page 13 Thu Juli 7 (4:46:11 1997 dpcagent.c move up	case K_SDOWN: /* ** <ctrl-pgdn> takes us to the bottom of the por */</ctrl-pgdn>	<pre>portal-&gt;cursorLine = virtualHeight; portal-&gt;virtualLine = portal-&gt;cursorLine - porta updateDisplay = TRUE; break;</pre>	case K_ESCAPE; escapeFlag = 1; break;		<pre>DPCGetSignalStrength(void) struct DriverStatsStructure *stats; CustVars</pre>	<pre>if (DPCGetMLIDStats(kstats))     return(0);  customPtr = (CustVars *) (kstats-&gt;CustomVariableCount); signal = customPtr-&gt;CustomVariable[0];</pre>	<pre>if (signal &gt;= 200)     signal = (2 * (signal - 200)) + 60;     else signal = 0;</pre>	<pre>beamSize = (int)((signal - 60L)/2L); beamSize *= 5; beamSize /= 4; if(beamSize &lt; 0)</pre>	beamSize = 0; ) else if(beamSize >= MAX_BEAM) (beamSize == MAX_BEAM)	, je	PCB **PortalPtr; struct DriverStatsStructure *stats;
to figure out how much we can	*/  if ( portal->cursorLine > portalHeight )  delta = portalHeight;  else  delta = portal->cursorLine;	<pre>portal-&gt;cursorLine -= delta; if ( portal-&gt;cursorLine &lt; portal-&gt;virtua</pre>	updateDisplay = TRUE; case K_PDOWN:	/* ** Move the portal down one page. */	<pre>if ( portal-&gt;cursorLine &lt; virtualHeight )</pre>	<pre>** we need to figure out how much we can */ delta = virtualHeight - portal-&gt;cursorLi</pre>	<pre>if ( delta &gt; portalHeight )     delta = portalHeight,     newCurrentLine = portal-&gt;cursorLine + de   s</pre>	<pre>delta = virtualHeight - portalHeight; if ( newCurrentLine &gt; delta )</pre>	<pre>portal-&gt;cursorLine = portal-&gt;virtualLine</pre>	<pre>case K_SUP:</pre>	<pre>portal-&gt;virtualLine = 0;  portal-&gt;cursorLine = 0;  updateDisplay = TRUE;</pre>
Thu Jul 17 14:46:11 1997		lLine ) rsorLine;	break;		ve down. However,	\$					

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Page 16
                                                                                                                                                                                                                                                                                                                                                                                     ptr = (BYTE *) (customPtr->CustomVariable(customPtr->CustomVariableCount)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            );
NWSShowPortalLine( line++, GblDataCol, string, STATS_DATA_WIDTH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                for ( count = 0; count < customPtr->CustomVariableCount; count++ )
                                                                                                                                                                                                                                                                                                                                                                  customPtr = (CustVars *)(&stats->CustomVariableCount);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      customPtr = (CustVars *)(&stats->CustomVariableCount);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         customPtr->CustomVariable[ count ],
                                                          MSG("%131u", 303)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          type = signal = customPtr->CustomVariable[0];
                                                                                                                                                                                     string,
STATS_DATA_WIDTH,
portalPtr
                                           string,
        dpcagent.c
                                                                                                                                                  line++,
GblDataCol,
                                                                                              )
NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          string,
MSG("%131u", 299)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CreateStringWithCommas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSUpdatePortal( portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  struct DriverStatsStructure *stats;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *customPtr;
                                                                            :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          while(!exitNow) {
  if (DPCGetMLIDStats(&stats)) (
    type = signal = 0;
                                                                                                                                                                                                                                                                                                                  /* do custom stuff */
                                                                                                                                                                                                                                                                                                                                                                                                                           ptr += sizeof(WORD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void SignalMeter(void) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            exitNow = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0 =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       aveStr[80];
signalStr[80];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               block = FALSE;
 The 15 The July 1446/11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   char fregStr[80];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int sound_gap = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        avgSqf = 0;
                                                                                                                                                                                                                                                                                                                                                       line += 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int beamPercent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oldSignal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int signal = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Int beamSize;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int exitNov
LONG type;
BYTE value;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int rxFreq;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CustVars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NWsprintf (string, MSG("%13.13s", 301), MSG("Not support
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ** This is the operating time stamp, which needs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FormatElapsedTime( seconds, tenths, tmpString ); NWsprintf( string, MSG("%13.13s", 302), tmpStrin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ConvertTicksToSeconds ( *statsPtr++, &seconds, &t
Fr. Harry Green Street Liver House
                                                                                                                                                                                                                                                                                            AddKey( NUTHandle->screenID, ENTER_KEY, 0, 0, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if ( mask & ( 0x80000000 >> ( count & 0x1f ) ) )
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tmpString[ 80 ];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for ( count = 0; count < numGenerics; count++ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CreateStringWithCommas
                                                                                                                                                                                                                      NWSGetPCB( &portalPtr, portal, NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          *statsPtr++,
                                                                                                                                                                                                                                                                                                                                                                                                                    line = GenericLineStart;
statsPtr = &( stats->NotSupportedMask );
numGenerics = stats->GenericVariableCount;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      string,
STATS_DATA_WIDTH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ** output format.
 dpcagent.c
                                                                                         string[80];
                                                                                                                                                                 customPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* not supported */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GblDataCol,
                                                      'statsPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if ( count == 20 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       portalPtr
                                                                                                                            seconds;
                                                                                                                                               tenths;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 line++,
                                                                                                            mask;
                                                                                                                                                                                     ptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BYTE
                                                                                                                                                                                                                                                         if (DPCGetMLIDStats(&stats))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              statsPtr++;
                                                                                                                                                                                                                                                                                                                                                                                     /* do generic stuff */
                                    line, count;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mask = *statsPtr++;
                                                                       int numGenerics;
                                                                                                                                                                                                                                                                                                               return,
 Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              )
else
(
                                                                                                                                                               CustVars
                                    int
LONG
                                                                                                                            LONG
                                                                                                                                               LONG
                                                                                                            LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ed", 298) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              a different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        enths );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ; ( b
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if ( (strnicmp(szTmp, MSG("RegionName=", 638), len)) ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* Destroy the throttle portal */
DisplayThrottle(MSG("Satellite Dish Signal Strength Meter", 351),
MAX_BEAM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              while (fgets(szTmp, sizeof(szTmp) - 1, fp) | NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fp = fopen(MSG("country.ini", 635), MSG("r", 636));
len = strlen(MSG("RegionName=", 637));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *dest = *src;
                                                                                                                                                                    dest++;
   dpcagent.c
                                       sound_gap = (110 - beamPercent) / 17;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *dest = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            void GetRegionName(char *regionName)
                                                                                                                                               if (NWSKeyStatus(NUTHandle)) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void GetCountry(char *countryName)
                                                                                                                                                                                                                                                                                                                                                                                                                                                               signalStr);
                                                                                                                                                                                                                                                                                                                                                                                                   MAX_BEAM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                       fregStr,
                                                                                                                                                                                                                                                                                                                                                                                                                                            aveStr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *src, *dest;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 char 'src, 'dest;
LONG len;
                                                                                                                                                                                                                                  exitNow = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *regionName = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char szTmp[128];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char szTmp[128];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (fp != NULL)
FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LONG len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FILE *fp;
                                                                                                       delay (150);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *src != '\n')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      beamPercent,
bLock ? MSG("(Signal Locked)", 348) : MSG("(Signal Not Locked)", 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              %s", 347),
                                                                                                                                                                                                                                                                    avgSqf = 100L * signal;
avgSqf = ((avgSqf * 19L) + (100L * (unsigned long) signal)) / 20L;
                                                                                                       Frequency : %d", 345), rxFreq / 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DisplayThrottle(MSG("Satellite Dish Signal Strength Meter", 341), beamSize,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (--sound_gap <= 0) {
   /* calculate frequency based on raw signal strength */
   signal = 200 + type;
   /* adjust for 8253-5 timer chip output */</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWsprintf(signalStr, MSG("Signal Quality : %d (%d%%)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nwsprintf(aveStr, MSG(" Average SQF : %d", 346), signal ? avgSqf / 100L : 0);
         dpcagent.c
                                                                                                                                                                                                                                                                                                                                    beamSize = (int)((avgSqf/100L - 60L)/2L);
                                         rxFreg = customPtr->CustomVariable[1];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        beamPercent = (100*beamSize) / MAX_BEAM;
                                                                                                                                             if (signal >= 200)
signal = (2 * (signal - 200)) + 60;
                                                                                                                                                                                                                                                                                                                                                                                                                                        beamSize = 0;
else if(beamSize >= MAX_BEAM)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               outp(97, inp(97) & ~0x03);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    signal = 1193180 / signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              outp(67, 182);
outp(66, signal % 256);
outp(66, signal / 256);
outp(97, inp(97) | 0x03);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         signalStr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  beamSize = MAX_BEAM - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(oldSignal != signal) (
  if(signal < MIN_SQF_VAL)
  bLock = FALSE;</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MAX_BEAM,
                                                                                                       NWsprintf(fregStr, MSG("
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   freqStr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          avestr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* turn off sound */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* turn on sound */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   oldSignal = signal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     signal,
                                                                                                                                                                                                                                                     if (avgSqf == 0L)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                bLock = TRUE;
       Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                     if(beamSize < 0)
                                                                                                                                                                                                                                                                                                                                                       beamSize *= 5;
                                                                                                                                                                                                                                                                                                                                                                              beamSize /= 4;
                                                                                                                                                                                                           signal = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      delay (300);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               49));
```

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         z
                                                                                                                                                                                                                                                                                                                                                                                                                void ParseSatelliteInfo(char *satName, int nameContainsInfo, SatelliteInfo *sat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if ( (strnicmp(szTmp, satName, strlen(satName)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   while ((fptr = fgets(szTmp, sizeof(szTmp) - 1, fp)) !=
                                                                                               /* 1 for horz, 0 for vert polarization */
                                                                     *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fp = fopen(MSG("country.ini", 644), MSG("r", 629));
if (fp != NULL)
                                                                  /* 1 for east, 0 for west
      dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (nameContainsInfo == FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       while(*cptr!=',')
*ascPtr++ = *cptr++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cityLongDegrees;
                                                                                                                                                 cityLatDegrees;
cityLatMinutes;
cityBastFlag;
cityNorthFlag;
                                                                                                                                   cityLongMinutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cptr = satName;
                                                                                                                                                                                                                                                                                                                                   polarization;
                                                                                                                                                                                                                                                                                                                                                                                                                                           FILE *fp;
char szimp[128];
char *fptr;
char *name, *cptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cptr = szlmp;
                                                                                                                                                                                                                                                                                                  trueAzimuth,
                                                                                                                                                                                                                                                                                                                  magAzimuth;
                                                 longitude;
                                                                                    frequency;
                                                                                                                                                                                                                                                                                 elevation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     while(*cptr == ' ')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (!fptr)
                                                                                                  horzFlag;
                               name[20];
                                                                    eastFlag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     name = sat->name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     char ascBuf[10];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ascPtr = ascBuf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (fp)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cptr++;
4 LI II. 12 C. L. F. L. ARE DO THE JOINT 144611 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *name = 0;
                                                                                                                                                                                                                ) SatelliteInfo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cptr++;
                                                                                                                                                                                                                                          while (*src != 0 && *src != ' ' && *src != '\r' & typedef struct
                                                                                                                                                                                                                                                                                                                                  float
                                                                                                                                                                                                                                                                                   float
                                                                                                                                                                                                                                                                                                  float
                                                                                                                                                                                                                                                                                                                  float
                                                else
                                                                                                                                                                                                                                                                                                                                                 ) DishInfo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (0 ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if ( (strnicmp(szTmp, MSG("Service1=", 185), len)) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               while (*src != 0 && *src != ' ' && *src != '\r'
                                                                                                                                                             if ( (strnicmp(szTmp, MSG("Name=", 642), len)) == 0)
{
                                                                                                                           while (fgets(szTmp, sizeof(szTmp) - 1, fp) != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 while (fgets(szTmp, sizeof(szTmp) - 1, fp) != NULL)
                                           fp = fopen(MSG("country.ini", 639), MSG("r", 640));
len = strlen(MSG("Name=", 641));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fp = fopen(MSG("country.ini", 626), MSG("r", 627));
len = strlen(MSG("Servicel=", 628));
                                                                                                                                                                                                                                                                                               *dest = *src;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *dest = *src;
                                                                                                                                                                                                                           dest = countryName;
                                                                                                                                                                                                               src = &szTmp[len];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                src = &szTmp[len];
dest = serviceName;
                                                                                                                                                                                                                                                                                                                                dest++;
dpcagent
                                                                                                                                                                                                                                                                                                               Src++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   dest++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Src++;
                                                                                                                                                                                              fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fclose(fp);
                                                                                                                                                                                                                                                                                                                                                              *dest = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *dest = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void GetDefaultService(char *serviceName)
                                                                                                                                                                                                                                                                                                                                                                               return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return;
                                                                                                                                                                                                                                                                                                                                                                                                                              fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fclose(fp);
                                                                             *countryName = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *serviceName = 0;
if (fp != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char *src, *dest;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char szTmp[128];
                                                                                            if (fp != NULL)
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG len;
                                                                                                                                                                                                                                                              & *src != '\n')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                & *src != '\n')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  typedef struct
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Page 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if ( (strnicmp(szTmp, MSG("[Hughes Networks]", 205), len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (*szTmp == '\ ' | | *szTmp == '\r' | | *szTmp == '\n')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                while ((fstr = fgets(szTmp, sizeof(szTmp) - 1, fp)) |= NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSSetListSortFunction(NUTHandle, oldSortFunction); return rcode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                while (fgets(szTmp, sizeof(szTmp) - 1, fp) |= NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ParseSatelliteInfo(listPtr->text, FALSE, sat);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AppendToList(szTmp, 0, &rows, &cols);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSGetListSortFunction(NUTHandle, &oldSortFunction); NWSSetListSortFunction(NUTHandle, NoSortHandler);
                                                                                                                 char szTmp[128];
char *szPtr;
int rows = 0, cols = 0, len;
void (*oldSortFunction)(LIST *, LIST *, NUTInfo *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fp = fopen(MSG("country.ini", 634), MSG("r", 667));
len = strlen(MSG("[Hughes Networks]", 668));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InxMSG("Choose Satellite", 648),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sat = (SatelliteInfo *)fieldPtr->customData;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (cols < 20) ? 20 : cols,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (rows > 16) ? 16 : rows
                  dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (ii)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 M_ESCAPE | M_SELECT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (NWSPushList(NUTHandle) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       szPtr++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUTHandle, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             while (*szPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   szPtr = szTmp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSInitList(NUTHandle, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *szPtr = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            goto ChangeSatExit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      &listPtr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (ccode == M_SELECT)
                                                                                                                                                                                                                                                                                                                                                                                changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (fstr != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                     handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ccode = NWSList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (fp != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (rows == 0)
   Page 21 Thu Juli 19444611 1997
                                                                                       char *fstr;
                                                                                                                                                                                                                                                                                                                                      key = key;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* Height */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* Width */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ## ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if ( (strnicmp(szTmp, MSG("[Hughes Networks]", 631), len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ChangeSatellite(FIELD *fieldPtr, int key, int *changed, NUTInfo *handle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ccode = fgets(szTmp, sizeof(szTmp) - 1, fp);
In the time that the line of t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ParseSatelliteInfo(szTmp, TRUE, sat);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 while (fgets(szīmp, sizeof(szīmp) - 1, fp) != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fp = fopen(MSG("country.ini", 632), MSG("r", 633));
len = strlen(MSG("{Hughes Networks}", 630));
if (fp != NULL)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (ccode == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return;
   dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void GetDefaultSatellite(SatelliteInfo *sat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fclose(fp);
                                                                                                                                                                                                                                           if (*cptr == 'e' || *cptr == 'E')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (*cptr == 'h' || *cptr == 'H')
                                                                                                                                                           sat->longitude = atoi(ascBuf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sat->frequency = atoi(ascBuf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *ascPtr++ = *cptr++;
                                                                                                                                                                                                                                                                                    sat->eastFlag = 1;
                                                                                                                                                                                                                                                                                                                                                                    sat->eastFlag = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sat->horzFlag = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sat->horzFlag = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SatelliteInfo *sat;
LIST *listPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG ccode;
LONG rcode = K_SELECT;
                                                                                                                                                                                                                                                                                                                                                                                                                                            while(*cptr != ',')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         while(*cptr != ',')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int NewCalculationFlag = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ascPtr = ascBuf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FILE *fp;
char szTmp[128];
LONG len;
Thu Jul 17 14:46:11 1997
                                                                                                                     *ascPtr = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *ascPtr = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char *ccode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cptr++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          () == ()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LONG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ZR = RAD * sin(LN);
YR = RAD * cos(LN) * cos(LW);
XR = RAD * cos(LN) * sin(LW);
DIST = sgrt(XR * XR + (ALT - YR) * (ALT - YR) + ZR * ZR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* Declination correction to TRUE Azimuth */ if(((LD > 23) && (LD < 50)) && ((RD > 70) && (RD < 125)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AZ = (A - atan(tan(LW) / sin(LN)) * 180 / M_PI;
AZ = floor(10 * AZ + .5 * SGN(AZ)) / 10;
TRAZ = AZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EL = (ALT * YR - RAD * RAD / (RAD * DIST);
EL = atan(EL / sqrt(1 - EL * EL)) * 180 / M_PI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LW = ((RD + RM / 60) - SD) * M_PI / 180;
   dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* Executed for US Mainland only */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            EL = (10 * EL + .5 * SGN(EL)) / 10;
                                                                                                                 = (float)sat->cityLongMinutes;
                                                                                                 (float)sat->cityLongDegrees;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LN = (LD + LM / 60) * M_PI / 180;
                                                                                                                                 = (float)sat->cityLatDegrees;
                                                                                                                                                  = (float)sat->cityLatMinutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6
                                                                                (float)sat->longitude;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ħ
                                                                                                                                                                                                     ,
()
                                                                                                                                                                                                                                                                                                == 'E'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (p->cRemHem == 'S')
if (sat->cityNorthFlag
                                                                                                                                                                                                                                                                                                                    (sat->cityEastFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A = 2 * M_PI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LW = .00001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          LN = .00001;
                              = p->dRemLatDeg;
                                                  = p->dRemLatMin;
                                                                                                                                                                                                   (p->cSatLong ==
                                                                                                                                                                                                                                                                                                                                                    RD = -RD;
RM = -RM;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LD = -LD;
LM = -LM;
                                                                                                                                                                                                                  (sat->eastFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A = M_PI;
                                                                                                                                                                                                                                   SD = -SD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (LN * LW > 0)
                                                                                                                                                                                                                                                                                                   (p->cRemLong
                                                                                                                                                                                    = fabs (SD);
                                                                                                                                                                                                                                                                   = fabs(RD);
                                                                                                                                                                                                                                                                                   = fabs (RM);
                                                                                                                                                                                                                                                                                                                                                                                                                    = fabs(LD);
                                                                                                                                                                                                                                                                                                                                                                                                                                    = fabs(LM);
L. Page 23 Tru Julin (14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (LW == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (LN == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (LN > 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A # 0;
                                                                                                 11
                                 3 5
                                                                                  E E E E B B
                                                                                                                                                                                    SD
                                                                                                                                                                                                                                                                   E E E
                                                                                                                                                                                                                                                                                                                                                                                                                    ::
                                                                                                                                                                                                                                                                                                   :
                                                                                                                                                                                                  7
                                                                                                                                                                                                                  ComputeHotSpot(FIELD *fp, int key, int *changed, NUTInfo *handle)
LongitudeHemisphereHandler(int option, void *parameter)
                                                                                                                 NWSDestroyList(NUTHandle);
NWSPopList(NUTHandle);
NWSSetListSortFunction(NUTHandle, oldSortFunction);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GroundLongHemHandler(int option, void *parameter)
GroundLatHemHandler(int option, void *parameter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PolarizationHandler(int option, void *parameter)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         void CalculateDish(SatelliteInfo *sat, DishInfo *dish)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                float LW, LN, ZR, YR, XR, DIST, EL, PO, AZ, TRAZ, S, A;
       dpcagent.c
                      NewCalculationFlag = 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            float SD, RM, LD, LM;
static const float M_PI = 3.14159;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 static const float RAD = 6378.388;
static const float ALT = 42164.24;
                                                   rcode = K_ESCAPE
                                                                                                                                                                                                                                                                                                                                      17
                                                                                                                                                                                                                                                                                                                                                                                                                                        parameter = parameter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            parameter = parameter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            parameter = parameter;
return option;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              parameter = parameter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    = p->dSatLong;
= p->dRemLongDeg;
= p->dRemLongMin;
                                                                                                                                                                                                                                                                                                                                     NewCalculationFlag
                                                                                                                                                                                                                                                                     key = key;
changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return -1;
                                                                                                                                                                                                                                                                                                     handle = handle;
                                                                                                                                                                                                                                                                                                                                                      return K_ESCAPE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    count = 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                      return option;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return option;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return option;
                                                                                                                                                                     return rcode;
       Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SGN(float num)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(num < 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return 1;
                                                                                                    ChangeSatExit:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8 8 £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               float
                                                                                                                                                                                                                    LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int
(
                                                                                                                                                                                                                                                                                                                                                                                                  int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :::
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSAppendIntegerField(i, 27, NORMAL_FIELD, (int *)&sat.longitude, 1, 180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        : ", 715), NUTHA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ę
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSAppendCommentField(i, 2, MSG("Satellite Polarization : ", 489), NUTHa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ŗ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NWSAppendCommentField(i, 2, MSG("Ground Longitude degrees : ", 543), NUT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              30, NORMAL_FIELD, (int *) &sat.cityLongDegrees,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendCommentField(i, 34, MSG("Hemisphere : ", 716), NUTHandle);
mfctl0 = NWSInitMenuField(InxMSG("Satellite Longitude Hemisphere", 717
40, LongitudeHemisphereHandler, NUTHandle);
NWSAppendToMenuField(mfctl0, InxMSG("West", 718), 0, NUTHandle);
NWSAppendToMenuField(mfctl0, InxMSG("East", 719), 1, NUTHandle);
NWSAppendMenuField(infctl0, InxMSG("East", 719), 1, NUTHandle);
NWSAppendMenuField(i, 47, NORWAL_FIELD, (int *)&sat.eastFlag, mfctl0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSAppendMenuField(1, 27, NORMAL_FIELD, (int *)&sat.horzFlag, mfctll,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               34, MSG("Frequency : ", 541), NUTHandle),
47, NORMAL_FIELD, (int *)&sat.frequency, 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mfctl1 = NWSInitMenuField(InxMSG("Satellite Polarization", 490),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fp = NWSAppendHotSpotField(i, start, NORMAL_FIELD, satelliteStr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PolarizationHandler, NUTHandle);
NWSAppendToMenuField(mfctll, InxMSG("Vert", 531), 0, NUTHandle);
NWSAppendToMenuField(mfctll, InxMSG("Horz", 539), 1, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWsprintf(satelliteStr, MSG("Satellite : %s", 649), sat.name);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ChangeSatellite, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                    MSG("Country: %s", 488), country);
                                                                                                                                                                                                                                                                                                                                                                                                                                        NWsprintf(regionStr, MSG("Region : %s", 712), region);
NWSAppendCommentField(i, 36, regionStr, NUTHandle);
                                                       Oxff;
Oxff;
Oxff;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSAppendCommentField(i, 2, MSG("Satellite Longitude
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSAppendCommentField(i, 36, serviceStr, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                       NWSAppendCommentField(i, 2, countryStr, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ' : %s", 713), city
cityStr, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GetDefaultService(service);
NWsprintf(serviceStr, MSG("Service : %s", 714),
                                                            ય ય ય
                                                sat.cityLatDegrees = (latLong >> 24) sat.cityLatMinutes = (latLong >> 16) {
sat.cityLongDegrees = (latLong >> 8) {
sat.cityLongMinutes = latLong & Oxff;
                                                                                                                                                                                     sat, cityEastFlag = sat.eastFlag;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          start = (78 - strlen(satelliteStr)) / 2;
             dpcagent.c
                                                                                                                                                              GetDefaultSatellite(&sat);
                                                                                                                                                                                                             sat.cityNorthFlag = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWsprintf(cityStr, MSG("City
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendCommentField(1, 2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSAppendCommentField(i, NWSAppendIntegerField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSAppendIntegerField(i,
                                                                                                                                                                                                                                                           NewCalculationFlag = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    fp->customData = &sat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1, 180, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                  NWsprintf(countryStr,
                                                                                                                                                                                                                                                                                                                                           GetCountry (country);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , F_NO_HELP, NUTHandle);
    | Page 25 | Thu Jul. 17,14 #6:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ndle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ndle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ľ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                00
                                                                                                                                                                                                                                                                                                                                                                                                                                   +nDeclination[(int)((LD+1)*14+RD)]
+nDeclination[(int)((LD+1)*14+RD-1)])/count;
  +nDeclination[(int)(LD*14+RD-1)]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   printf("S=%lf LN=%lf LW=%lf PO=%lf\n",S,LN,LW,PO); */
                                                                                                                                                                                                                                                                                                                                                                                     = AZ+(nDeclination((int)(LD*14+RD))
                                                                                                                                                                                                                             if(!nDeclination[(int)((LD+1)*14+RD-1)])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ComputeCity(char *region, char *city, LONG latLong)
                                                                                                                                                                                                                                                                            if(!nDeclination[(int)((LD+1)*14+RD)])
                                                                                                                                                                       if(!nDeclination[(int)(LD*14+RD-1)])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MFCONTROL *mfctl0, *mfctl1, *mfctl2, *mfctl3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 char elevationStr[50], trueAzimuthStr[50];
char magAzimuthStr[50], polarizationStr[50];
                                                                                                                    if(!nDeclination((int)(LD*14+RD)])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           = M_PI / 2.0 - PO;
= PO * SGN(S) * 180 / M_PI;
= floor(10 * PO + .5 * SGN(PO)) / 10;
dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char country(20), countryStr(30);
char regionStr(30), cityStr(30);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char service(30), serviceStr(30); char satelliteStr(50);
                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AZ < 0) AZ = AZ + 360;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (NewCalculationFlag == 0)
                                                                     LD = floor(LD/4)
RD = ceil(RD/4)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       dish->trueAzimuth = TRAZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                dish->polarization = -PO;
                                                                                                                                                                                                                                                           count--;
                                                                                                                                                                                                                                                                                                            count--;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ΑZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSInitForm(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        S = tan(LN) / sin(LW)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dish->magAzimuth = AZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  p->dRemTrueAz = TRAZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dish->elevation = EL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            p->dRemPolar = -PO;
                                                                                                                                                                                                                                                                                                                                                                                     A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ΑZ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           p->dRemMagAz = AZ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SatelliteInfo sat;
                                                                                                                                                                                                                                                                                                                                 if (count)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    p->dRemElev = EL;
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (AZ >= 360)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      = fabs(PO);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           = atan(S);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DishInfo dish;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               start;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            calculateAgain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2222
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ::::
```

, NUTHandle)	.nxMSG("Antenna Pointing Calculat	le */ NWSDestroyForm(NUTHandle);  if (NewCalculationFlag != 0)  goto calculateAgain;	) void ComputeGetCity(char *region)	₩ →	byteStr[8]; latDeg, latMilen, start = info;	<pre>NWSStartWait( 0, 0, NUTHandle ); /* DWH change 970131 */ getCitiesLoop:    rows = cols = 0;    listPtr = NULL;    NWSInitList(NUTHandle, NULL);</pre>	<pre>dirCountry = opendir(MSG("*.cty", 702)); if (dirCountry == NULL) goto errorNoDir;</pre>	<pre>while( (dirCity = readdir(dirCountry)) != NULL ) (</pre>	<pre>name = dirCity-&gt;d_name;  fp = fopen(name, MSG("r", 703));  if (fp == NULL)</pre>	<pre>len = strlen(region); if (fgets(szTmp, sizeof(szTmp) - 1, fp) != NULL) {    if ( strnicmp(region, szTmp, len) ) == 0)    break; } fclose(fp); }</pre>
Thu Jul 17 14:46:11 1997  Thu Jul 17 14:46:11 1997  WMSAppendCommentField(1, 40, MSG("minutes : ", 545), NUTHandle);  NWSAppendIntegerField(1, 50, NORMAL_FIELD, (int *)&sat.cityLongMinutes,  1, 180, F_NO_HELP, NUTHandle);	<pre>NWSAppendCommentField(i, 58, MSG("Hemisphere : ", 686), NUTHandle);</pre>	2, MSG("Ground Latitude degrees : ", 690), NUT 30, NORMAL_FIELD, (int *) ksat.cityLatDegrees, 1	40, MSG("minutes : ", 691), NOTHandle); 50, NORMAL_FIELD, (int *)&sat.cityLatMinutes, 1	<pre>NWSAppendCommentField(i, 58, MSG('Hemisphere : ", 692), NUTHandle); Mfctl3 = NWSInitMenuField(InxMSG('Ground Latitude Hemisphere", 693), 10, 40, GroundLatHemHandler, NUTHandle); NWSAppendToMenuField(mfctl3, InxMSG("South", 694), 0, NUTHandle); NWSAppendToMenuField(mfctl3, InxMSG("North", 695), 1, NUTHandle); NWSAppendMenuField(mfctl3, InxMSG("North", 695), 1, NUTHandle); 3, NULL, NUTHandle);</pre>	<pre>i++; NWSAppendHotSpotField(i, 35, NORWAL_FIELD, MSG("COMPUTE NOW", 696),</pre>		if (dish.polarization < -90.0)  dish.polarization += 90.0;		Elevation : %1f", 697),  True Azimuth : %1f", 698),  243))) != 0)  G("Magnetic Azimuth : N/A", 695  MSG("Magnetic Azimuth : %1f"	<pre>NWsprintf(polarizationStr, MSG(* Polarization : %lf", 700), dish.pola rization); NWSAppendCommentField(i, 2, elevationStr, NUTHandle); i++; NWSAppendCommentField(i, 2, trueAzimuthStr, NUTHandle); i++; i++; i++;</pre>

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* DWH change 970131 */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSInitList(NUTHandle, NULL);
SetCurrentNameSpace(DOSNameSpace);
NWsprintf(path, MSG("SYS:DIRECPC\\DB\\%s.cou", 706), country);
                                                                                                                 /* DWH change 970131 */
                                                                                                                                                   nxMSG("Choose A City", 704)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ComputeCity(region, szTmp, info);
                                                                                                                                                                                         (rows < 16) ? rows : 16,
                                                                                                                                                                                                                                                                                                                                                                                              info = (LONG)listPtr->otherInfo;
                                                                                                                                                                                                                              (cols < 18) ? 18 : cols,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dirCountry = opendir(MSG("*.cty", 707));
if (dirCountry == NULL)
   dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                    stropy(szTmp, listPtr->text);
                                                                                                                                                                                                                                                                 M_ESCAPE | M_SELECT
                                                                                                                                                                                                                                                                                                                                                                                                                                NWSDestroyList (NUTHandle);
                                                                                                                                                                                                                                                                                                     NUTHandle, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSStartWait( 0, 0, NUTHandle );
                                    closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                        closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                        NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void ComputeGetRegion(char *country)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           goto getCitiesLoop;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSDestroyList(NUTHandle);
closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *dircity;
                                                                                                                                                                                                                                                                                    &listPtr,
                                                                                                               NWSEndwait ( NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *listPtr = NULL;
                                                          goto errorNoDir;
                                                                                                                                                                         12, 40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int rows = 0, cols = 0;
                                                                                                                                                                                                                                                                                                                                                             if (ccode == M_SELECT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LONG ccode = M_SELECT;
 L. L. 1. 2. C. 1. L. 1. PAGE 23 Enujulu 17 (44 46 11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char *name, *end;
                                                                                                                                ccode = NWSList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DIR *dirCountry,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    szTmp[128];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rows = cols = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             listPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               char path[64];
FILE *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LONG header;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (chdir(path))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           getRegionsLoop:
                                                                                                                                                                                                          /* Height */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    char
                                                                                                                                                                                                                                            /* Width */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           errorNoDir:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AppendToList(&szTmp[start], info, &rows, &cols);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ((latMin & Oxff) << 16)
((longDeg & Oxff) << 8)
(longMin & Oxff);
                                                                                                                                                 fb) != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         start = 1en + 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (szTmp[len] == ' ')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          << 24)
                                                                                                                                              while (fgets(szTmp, sizeof(szTmp) - 1,
   dpcagent.c
                                                                                                                                                                                  int len = strlen(sz7mp) - 2;
byteStr[2] = sz7mp[len--];
byteStr[1] = sz7mp[len--];
byteStr[3] = 0;
                                                                                                                                                                                                                                                            longMin = atoi(&byteStr[1]);
                                                                                                                                                                                                                                                                                                                                                                                     byteStr[2] = szTmp[len--];
byteStr[1] = szTmp[len--];
latMin = atoi(&byteStr[1]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   byteStr(2) = szTmp[len--];
byteStr(1) = szTmp[len--];
latDeg = atoi(&byteStr(1));
                                                                                                                                                                                                                                                                                              byteStr[2] = szTmp[len--];
byteStr[1] = szTmp[len--];
byteStr[0] = szTmp[len--];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .
10
                                                                                                                                                                                                                                                                                                                                                        longDeg = atoi(byteStr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          info = ((latDeg & 0xff)
                                                                    closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          len--;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (start > 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       longMin = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              szTmp[len+1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ))
D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                latDeg++;
latMin = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    longDeg++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  while (len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (longMin > 59)
                                                                                       goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   while(szTmp[len]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (latMin > 59)
                              if (dircity == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(len > 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ô
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (rows am
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fclose(fp);
```

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                                                                                                                                                                                                                                                          NWSAlert(12, 40, NUTHandle, InxMSG("Unable to locate Country files in Co
directory %s.cou", 569), country);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Height */
/* Width */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ((dot = strchr(name, '.')) != NULL)
  *dot = 0;  /* we don't want the extension */
                                                                                                                                                                                                                     /* DWH change 970131 */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InxMSG("Choose A Country", 572),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           while ( dirCountry = readdir(dirDB)) != NULL )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AppendToList(name, 0, &rows, &cols);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (NWSPushList(NUTHandle) != 0)
{
           dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             name = listPtr->text;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   M_ESCAPE | M_SELECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     dirDB = opendir(MSG("*.cou", 571));
if (dirDB == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SetCurrentNameSpace(DOSNameSpace);
if (chdir(MSG("SYS:DIRECPC\\DB", 570)))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     name = dirCountry->d_name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUTHandle, NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSInitList(NUTHandle, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NULL, NULL);
                                                                                         NWSDestroyList(NUTHandle);
                                                                                                                                                                                                                                      NWSDestroyList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      &listPtr,
                                                                                                                                                                                                                   NWSEndWait ( NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                      DIR *dirDB, *dirCountry;
char *name, *dot;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *listPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                goto errorNobir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          closedir (dirDB);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LONG ccode = M_SELECT;
int rows = 0, cols = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (ccode == M_SELECT) {
                                                                                                                                  closedir(dirCountry),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rows,
                                                                                                                                                                                                                                                                                                                                                                                                               void ComputeCoordinates(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      rows = cols = 0;
listPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ccode = NWSList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (rows == 0)
getCountriesLoop:
                                                                                                                                                       return;
                                                                                                                                                                                                                                                                                                        return;
                                                                                                                                                                                              errorNoDir:
                                                                                                                                                                                                                                                                                   untry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* DWH change 970131 */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              /* DWH change 970131 */
                                                                                                                                                                                                                                                                                                                        end = &szTmp[strlen(szTmp) - 2];
while( (*end == ' ') && (end != szTmp) )
                                                                                                                                                                                                                                                                               if(fgets(szTmp, sizeof(szTmp) - 1, fp) != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                   AppendToList(szTmp, 0, krows, kcols);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ( (strcmpi(szTmp, MSG("Province", 709))) == 0)
    header = InxMSG("Choose A Province", 710);
                                            while ( dirCity = readdir(dirCountry)) != NULL )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (rows < 16) ? rows : 16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |cols < 18) ? 18 : cols,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     header = InxMSG("Choose A State", 711);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   M_ESCAPE | M_SELECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        &listPtr,
NUTHandle, NULL,
NULL, NULL);
                                                                                                                                = fopen(name, MSG("r", 708));
         dpcagent.c
                                                                                                                                                                                              closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          stropy(szTmp, listPtr->text);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSDestroyList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSDestroyList (NUTHandle);
                                                                                                                                                                                                                 goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSEndwait (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSEndWait ( NUTHandle );
                                                                                     name = dirCity->d_name;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ComputeGetCity(szTmp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          header,
                                                                                                                                                                                                                                                                                                                                                                       end--;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ComputeGetCity(szTmp);
goto getRegionsLoop;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                closedir(dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        closedir (dirCountry);
                                                                                                                                                                                                                                                                                                                                                                                                             *end = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      goto errorNoDir;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ccode = NWSList (
                                                                                                                                                   (fp == NULL)
                                                                                                                                                                                                                                                                                                                                                                                          end++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      GetRegionName(szTmp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (ccode == M_SELECT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fclose(fp);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (rows == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (rows == 1)
         Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  )
else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* Height */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* Width */
```

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWsprintf(string, MSG("%s", 501), CASDBdacau.entries == 0 ? MSG("FALSE",
                                                                                                                                                                                                                                                                                                                                                                                 line, count, col;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if (line > (portalPtr->virtualHeight - 1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSGetPCB( &portalPtr, portal, NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       count = CASDBdacau.entries;
NWsprintf( string, MSG("%d", 495), count );
NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             serialNumber[10];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    dptr = (MUXdacau_t *)CASDBdacau.p_buffer;
while (count)
             dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                           string(80);
                                                                                                                                                                                                                                                               void UpdateAdapterInformation(LONG portal)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CStrLen(serialNumber),
                                                                                                                                                                                                                                                                                                                                                   *portalPtr;
                                                                                                              NWSDestroyList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  string,
CStrLen(string),
portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CStrLen(SiteID),
portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CStrLen(string),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DIOGETSN(serialNumber);
                                                                                                                                                                                                                                                                                                                                                                                                                      *dptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* do generic stuff */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                serialNumber,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           line++,
GblDataCol,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        line++,
GblDataCol,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GblDataCol,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GblDataCol,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      line++,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SiteID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         line++,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     string,
      He had been seen from the contract of the cont
                                                                                                                                                                                                                                                                                                                                                                              int
MUXdacau_t
BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    line = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "TRUE ");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                char
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            474) ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSAlert(12, 40, NUTHandle, InxMSG("Unable to locate Country directories
in SYS:DIRECPC\\DB", 573));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSAppendToList(MSG("Antenna Pointing Calculations", 574), (void *)1, NU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* Heigh
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Width
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSAppendToList(MSG("Signal Strength Meter", 575), (void *)2, NUTHandle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ComputeCoordinates();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  switch ((int)listPtr->otherInfo)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SignalMeter();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InxMSG("Dish Pointing", 576),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (NWSPushList (NUTHandle) != 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           )
NWSPopList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                M_ESCAPE | M_SELECT,
                                                                   ComputeGetRegion(name);
NWSPopList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             default:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUTHandle, NULL,
   dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   case 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                case 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NULL, NULL);
                                                                                                                                                                           NWSDestroyList(NUTHandle);
closedir(dirDB);
goto getCountriesLoop;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        &listPtr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12, 40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (ccode == M_SELECT)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSInitList (NUTHandle, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         30,
                                                                                                                                                                                                                                                                                                                                                                NWSDestroyList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSDestroyList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          while (ccode != M_ESCAPE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *listPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ccode = NWSList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG ccode = M_SELECT;
                                                                                                                                                                                                                                                                                                                                                                                                                                       closedir (dirDB);
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    void DPCPointing(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      errorNoDir:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 THandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 t */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       *
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Page 36
                                                                                                                                                                                                                                            string, len, portalPtr );
                                                                                                                                                                                                                                                                                                                               len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSShowPortalLine( line++, BORDER_WIDTH, string, len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GblDataCol = ( ScreenWidth - 4 ) - BORDER_WIDTH - STATS_DATA_WIDTH;
if (DPCGetMLIDStats(&stats))
                                                                                                                                                                                                      ", 496));
                                                                                                                                                                                                                                                                                     ", 497));
                                                                                                                                                                                                                                                                                                                                                                        : ", 498));
                                                                                                                                                                                                                                                                                                                                                                                                                                                       499));
                                                                                                                                                                                                                                                                                                                                                                                                                                               NWsprintf(string, MSG("Number Of Communites : ",
                                                                                                                                                                                                                                                                                                                               string,
                                                                                                                                                                                                                                                                                                                                                                                   len = CStrLen( string );
NWSShowPortalLine( line++, BORDER_WIDTH, string,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSShowPortalLine( line++, BORDER_WIDTH, string,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWsprintf(string, MSG("Communities : ", 500));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * Build up the LAN name followed by its I/O resources
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BackgroundFuncPtr = UpdateAdapterInformation;
HandleScrollablePortal(portalPtr);
BackgroundFuncPtr = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *config;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 UpdateAdapterInformation(BackgroundPortal);
                                                                                                                                                                                                                 len = CStrLen( string );
NWSShowPortalLine( line++, BORDER_WIDTH,
                                                                                                                                                                                                                                                                                                  len = CStrLen( string );
WWSShowPortalLine( line++, BORDER_WIDTH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSDestroyPortal (BackgroundPortal, NUTH-NWSSelectPortal (OldPortal, NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                  NWsprintf(string, MSG("Have Keys Status
           dpcagent.c
                                                                                                                                                                                            Nwsprintf(string, MSG("Serial Number
                                                                                    /*
* Start filling in the static portal lines.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 struct DriverConfigurationStructure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DriverStatsStructure *stats;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *customPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    numberOfGenerics;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ProtocolNodeStructure *protocol;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GblbataCol = BORDER_WIDTH + 24;
                                                                                                                                                                                                                                                                               NWsprintf(string, MSG("Site ID
                                              NWSClearPortal( portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               *customStrings, *ptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         name[128], *namePtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *portalPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              promptMax;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DIOGETMLIDConfig(&config);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           len = CStrLen( string );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          len = CStrLen( string
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 count;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   string(80);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               void DisplayMLIDStats (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oldPortal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return;
         | | Page 35 | Thu Jul | 7 | 4446:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CustVars
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                struct
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ((line + 4) > (ScreenHeight - 3)) ? ScreenHeight - 3 : line + 4, gblUPFHeight + gblLPFHeight */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Current Communities:
                                                                                                                                            WWsprintf( string, MSG("%2.2X%2.2X%2.2X%2.2X", 504),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* Site ID, S/N, Key Status, Number of Communities,
     the light day that I had been as
                                                                                                                                                                   dptr->groupid.i[2], dptr->groupid.i[1],
dptr->groupid.i[0], dptr->version);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       portalPtr->showScrollBars = SHOW_VERTICAL_SCROLL_BAR;
portalPtr->showScrollBars |= TEXT_SENSITIVE_SCROLL_BARS;
portalPtr->verticalScroll = SCROLL_ON;
                                          count-- )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSGetPCB( &portalPtr, BackgroundPortal, NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ·
·
·
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSSelectPortal (oldPortal, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ( Screenwidth - 4 /* gblUPFWidth - 2
                                        for (col = 8; col <= 64; col+=16,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MSG("DPC Adapter Information", 502),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ScreenWidth - 2 /* gblUPFWidth */,
                                                                                                                                                                                                                                                                                               string,
CStrLen(string),
     dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           oldPortal = NUTHandle->currentPortal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* gblUPFTopLine */,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ( BackgroundPortal > MAXPORTALS )
                                                                                                                                                                                                                                 NWSShowPortalLine(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSDeselectPortal ( NUTHandle );
BackgroundPortal = NWSCreatePortal
                                                                                                                                                                                                                                                                                                                                         portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            community lines */
line += (CASDBdacau.entries / 4);
                                                                                                        break:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 /* gblUPFLeftCol */,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSUpdatePortal ( portalPtr );
                                                                                                                                                                                                                                                                               207
                                                                                  if (!count
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 line, len;
                                                                                                                                                                                                                                                                                                                                                                                                     dptr++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      void DisplayAdapterInfo(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             string[80];
                                                                                                                                                                                                                                                                                                                                                            .:
~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    oldPortal;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CURSOR_OFF,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           'portalPtr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUTHandle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VINTENSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VNORMAL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          VIRTUAL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SINGLE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       line = 5 + 3;
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          line,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PCB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 extra
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              •
```

Thu.Jul 1	Thu Jul 17 14:46:11 1997 dpcagent.c	
if (co	<pre>nfig-&gt;DLogicalName[0] != 0) NNsprintf(name, MSG("%s [%S", 270), config-&gt;DLogicalName, config</pre>	line $\approx 3;$ /* lines for version, node address, and protocol header */
	else NWsprintf(name, MSG("[%S", 271), config->DShortName);	<pre>/* Add up the number of protocols bound to this board */</pre>
	<pre>if (config-&gt;DIOPortsAndRanges[1] &gt; 0)</pre>	<pre>protocol = MLIDProtocolListByBoard[ DIOBoard ]; while (protocol != NULL)</pre>
es[0]);	namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" port=%X", 272), config->DIOPortsAndRang	++line;  brotocol = (ProtocolNodeStructure *) protocol = (ProtocolNodeStructure *)
·—-	) if (config->DIOPortsAndRanges(3) > 0)	The control of the
es[2]);	namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" port=%X", 273), config->DIOPortsAndRang	<pre>/* Add in the number of generic statistics */ line += 2;</pre>
	) if (config->DMemoryDecodeAndLength[0].LANMemoryAddress > 0 )	<pre>numberOfGenerics = stats-&gt;GenericVariableCount; line += numberOfGenerics;</pre>
	namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" memory=%X", 274), Config->DMemoryDecodeAndLength[0].LANMemoryAddre	<pre>promptMax = 0; for (count = 0; count &lt; numberOfGenerics ; count++ ) {</pre>
200	) if (config->DMemoryDecodeAndLength[1].LANMemoryAddress > 0 )	<pre>len = CStrLen( GetMsg(GenericDescriptionTable(count)) ); if (promptMax &lt; len)   (</pre>
-	namePtr = name + CStrLen(name);  NWsprintf(namePtr, MSG(" memory=%X", 275),  Config~> DMemoryDecodeAndLength[1] LANMemoryAddre	promptMax = len;
: (88)		/* Add in the number of custom statistics */ line += 2; /* Blank line and Custom statistics header */
···	<pre>(</pre>	<pre>customPtr = (CustVars *)(&amp;stats-&gt;CustomVariableCount); customStrings = (BYTE *)(customPtr-&gt;CustomVariable[customPtr-&gt;CustomVariable];</pre>
	<pre>if (config-&gt;DIntLine(1) != 0xff)</pre>	<pre>customstrings += sizeof(WORD);</pre>
	<pre>namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" int=%x", 277), config-&gt;DIntLine[1]); } if (nonfig=&gt;DDMMrina(0)   0.66)</pre>	line += customPtr->CustomVariableCount;  /* Check lengths of custom strings */
		<pre>ptr = customStrings; /* temp pointer to walk down custom prompts */ for { count = 0; count &lt; customPtr-&gt;CustomVariableCount; count++ )</pre>
	namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" dma=%X", 279), config->DDMALine[1]);	<pre>promptMax = len; while ( *( ptr++ ) ) ;</pre>
, •	) if (config->DMediaType != NULL)	
	namePtr = name + CStrLen(name); NWsprintf(namePtr, MSG(" frame=%S", 280), config->DMediaType);	add a blank line for the bottom */
- 12		<pre>prompcmax = b4; /* minimum portal width */ else if ( promptMax &gt; 60 )     promptMax = 76; /* maximum portal width */ else</pre>
/* * Before we * of lines *	Before we can create the portal, we must add up the number number of lines we'll need, which will be bigger than the window.	promptMax += 16; /* custom portal width within range */

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             len = CStrLen( MSG("Generic statistics", 288) );
NWSShowPortalLine( line++, BORDER_WIDTH, MSG("Generic statistics", 289),
                                                                                                                                                                                                                                                                                                                                                                                                                                 ", 286), GET_H
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protocol = . (ProtocolNodeStructure *)protocol->ProtocolBoardLink;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            len = CStrLen( MSG("Custom statistics", 227) );
NWSShowPortalLine( line++, BORDER_WIDTH, MSG("Custom statistics", 292),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for ( count = 0; count < customPtr->CustomVariableCount; count++ )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BORDER_WIDTH + ( 2 * INDENT_WIDTH ),
                                                                                                                                                                                                                                         ( LStrCmp( string, MSG("\\times003IPX", 285) ) == 0 )
                                                                                                                                                                                                                                                                                                                                                                                                tmpLong = IPXNetNumberTable( DIOBoard );
NWsprintf( string, MSG("Network address:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ptr = GetMsg(GenericDescriptionTable[count]);
                                                                                                        BORDER_WIDTH + INDENT_WIDTH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               BORDER_WIDTH + INDENT_WIDTH,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for ( count * 0; count < numberOfGenerics;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            len = CStrLen( string );
NWSShowPortalLine
                     dpcagent.c
                                                                                                                                                                                                                                                                                                                                                /* network address */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                len = promptMax;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             string,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             line++,
                                                                                                                                     &string[ 1 ],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if ( len > promptMax )
                                                                                                                                                                                                                                                                                                LONG tmpLong;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       len = CStrLen( ptr );
                                                                                                                                                                                          portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSShowPortal Line
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* Generic Statistics */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GenericLineStart = line;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         len,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            <u>..</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* custom stats */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           promptMax -= 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  ILO_LONG( &tmpLong ));
    ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       line++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    line++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        len,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WWsprintf(string, MSG("Version %d.%d", 282), config->DMLID_MajorVersion,
                                                                                                 must meet the minimum portal size
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GetProtocolNameTableEntry( protocol->ProtocolNumber, string );
CMovB(ProtocolNameTable[protocol->ProtocolNumber], string, 16)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             len = CstrLen( string );
NMSShowPortalLine( line++, BORDER_WIDTH, string, len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GET_HILO_LONG( (LONG *)&config->DNodeAddress[0]),
GET_HILO_WORD( (WORD *)&config->DNodeAddress[4]));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSShowPortalLine( line++, BORDER_WIDTH, string, len, portalPtr );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSShowPortalLine( line++, BORDER_WIDTH, MSG("Protocols:", 284),
CStrLen( MSG("Protocols:", 287) ), portalPtr );
protocol = MLIDProtocolListByBoard( DIOBoard );
while ( protocol != NULL )
                                                                                                                                                                                                                                                                             1 /* gblupFLeftCol */,
ScreenHeight - 3 /* gblUPFHeight + gblLPFHeight */,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              portalPtr->showScrollBars = SHOW_VERTICAL_SCROLL_BAR;
portalPtr->showScrollBars |= TEXT_SENSITIVE_SCROLL_BARS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSGetPCB ( &portalPtr, BackgroundPortal, NUTHandle );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWsprintf(string, MSG("Node Address: %X%4.4X", 283),
                                                                                                                                                                                                                                                                                                                                                                                      ScreenWidth - 4 /* gblUPFWidth - 2 */ ),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSSelectPortal (oldPortal, NUTHandle);
                                                                                                                                                                                                                                                                                                                                    ScreenWidth - 2 /* gblUPFWidth */,
    dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                portalPtr->verticalScroll = SCROLL_ON;
NWSClearPortal( portalPtr );
                                                                                                                                                      oldPortal = NUTHandle->currentPortal;
                                                                                                                                                                                                                                                            gblUPFTopLine */,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ( BackgroundPortal > MAXPORTALS )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /*
* Start filling in the static portal lines.
                                                                                                                                                                         NWSDeselectPortal ( NUTHandle );
BackgroundPortal = NWSCreatePortal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          string[ len + 1 ] = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* Fill in the MLID version */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* Fill in the node address */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  len = string[0];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSShowPortalLine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               len = CStrLen( string );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       config->DMLID_MinorVersion);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CURSOR_OFF,
                                                                                                    line = 8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NUTHandle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     VINTENSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MORMAL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VIRTUAL,
                                                                         if ( line < 8 )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SINGLE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* protocols */
                                                                                                                                                                                                                                                                                                                                                                 line,
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                             name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     line = 0;
```

```
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                õ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Internet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendHotSpotField(i, 15-(18/2), NORMAL_FIELD, MSG("Send to the Modem
                                                                                                                                                                                                                                                                                                                                                                                                                         type, handle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSAppendHotSpotField(i, 15-(26/2), NORMAL_FIELD, MSG("Dial the Package
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSAppendHotSpotField(i, 15-(20/2), NORMAL_FIELD, MSG("Disconnect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSAppendHotSpotField(i, 15-(18/2), NORMAL_FIELD, MSG("Dial the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DialInternetRoutine, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DisconnectRoutine, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                         *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DialPDRoutine, NUTHandle);
                                                                                                                                                                                                                                                                                                      /* header
                                                                                                                                                                                                                                                                                                                                           /* prompt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DloSend(sendStr, len, DLO_INET_TIMEOUT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Dlosend(MSG("\r", 609), 1, DLO_INET_TIMEOUT);
                                                                                                                                                                                                                                                                                                    InxMSG("Modem Send Editor", 587),
     dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* Start Change by DWH 961115
                                                                                                                                                                                                                                                                                                                                                                                                                                  NULL, NULL,

It Proc, action Proc*/

MSG("a..z0..9A..Z-_", 589));

if (ccode & E_ESCAPE)

(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* End change by DWH 961115
                                                                                                                                                                                                                                                                                                                                                                                                   *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if ( (len = CStrLen(sendStr)) )
                                                                                                                                                                                                                                                                                                                                          InxMSG("Send : ", 588)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSPopList (NUTHandle)
                                                                                                                                     if (!NWSPushList(NUTHandle))
    return(K_NORMAL);
                                                                                                                                                                                                                                                                                                                                                                               (BYTE*)&sendStr, 80,
                                                                                                                                                                                                                                          *
                                                                                                                                                                                                                                                                                                                                                                                                   len
EF_ANY, NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return (K_NORMAL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSInitForm(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWSPopList (NUTHandle);
                                                                                                                                                                                                 ccode = NWSEditString(
                                           changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return (K_NORMAL);
                                                               handle = handle;
                                                                                                     ;
()
                                                                                                                                                                                                                      12, 40,
column
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   void ModemControl (void)
                                                                                                                                                                                                                                                              l, 40,
                                                                                                                                                                                                                                                                              width
 L. I Ruge at [Thus Jan 1997]
                                                                                                   sendStr[0]
                                                                                                                                                                                                                                                                            /* edit height,
                                                                                                                                                                                                                                        /* center line,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* insert Proc,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Delivery", 590),
                                                                                                                                                                                                                                                                                                                                                                                                buffer, max
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       i = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             dem", 547),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       . ", 549),
                                                                                                                                                                                                                                                                                                                                                                                                                                      *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DialInternetRoutine(FIELD *fp, int key, int *changed, NUTInfo *handle)
                                                                                                                                                                                                                                                                                                                                                                                                                DisconnectRoutine (FIELD *fp, int key, int *changed, NUTInfo *handle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SendModemRoutine(FIELD *fp, int key, int *changed, NUTInfo *handle)
In the true from the last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DialPDRoutine(FIELD *fp, int key, int *changed, NUTInfo *handle)
                                                                                                                 );
while ( *( customStrings++ ) )
: /* find the next string */
                                                                                                                                                                                                                                                       HandleScrollablePortal(portalPtr);
BackgroundFuncPtr = NULL;
NWSDestroyPortal( BackgroundPortal, NUTHandle );
NWSSelectPortal( oldPortal, NUTHandle );
                                  BORDER_WIDTH + INDENT_WIDTH
                                                                                                                                                                                                                                     BackgroundFuncPtr = UpdateStatsInformation;
                                                                                                                                                                                                                   UpdateStatsInformation(BackgroundPortal);
                                                                             CStrLen (customStrings),
   dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DloStartConn(DLO_PACKAGE_TIMEOUT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DloStartConn(DLO_INET_TIMEOUT);
                                                           customStrings,
                                                                                                 portalPtr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        key = key;
changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fp = fp;
key = key;
changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               key = key;
changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return (K_NORMAL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return (K_NORMAL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    BYTE sendStr[82];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return (K_NORMAL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DloEndConn();
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fp = fp; key = key;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int ccode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                        fp = fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fp = fp;
                                                                                                                                                                                                                                                                                                                                                                                                                LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LONG
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LONG
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  LONG
```

Thu Ju	Thu Jul 17 14:46:11 1997 dpcagent.c	dpcagent.c
", 551),		enHeight, ScreenWidth, /* frame
	לבוומיניסתפווועסתרדונפי ועסדוומותדע"	ب
		SAVE, NULL,
	PortalForm(InxMSG("Modem Control Options", 552), 10, 30,	flag,
/* cer	center line, column */	attr, border t
/* for	eight, width */ F_NOVERIFY, F_NO_HELP, /* Control flags, help m	cursor flag */ VIRTUAL, NUTHandle); /*
essage	*/ InxMSG("Save Changes?", 585),	
1e */		<pre>if (mainPortal &gt;= MAXPORTALS) return;</pre>
	ndle);	<pre>#if DRIVER_IO LookForAdapter: #endif</pre>
**	**************************************	<pre>while (NWSKeyStatus(NUTHandle))</pre>
* *	Description:	NWSUpdatePortal( NUTHandle->portal[mainPortal]);
* * *	This routine is where the main agent thread lives.  It initiates the NUT screen, waits for the DPC MLID  to become active, and wait for user commands.	$^{\prime}^{\star}$ bisplay our server name in an info portal at the top of the screen.
* *	Input:	<b>/*</b>
* *	nothing	UpdateHelpPortal();
* * *	Output: nothing	/* * Lets look for a DPC adapter, */
* * •	Returns: nothing	
* * * * *	1、《水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	mailing to for anapres of load, 145/// DPCName[0] = 3; #if DRIVER_IO
void (	nOptionsHandler()	while(DIORegisterWithAdapter(DPCName) && exitFlag == FALSE)
	<pre>int choice, prevChoice, 1; int exitFlag = FALSE; LIST *defaultList;</pre>	{     delay(500);     if (NWSKeyStatus(NUTHandle))
	3 typ	lue, NUTHandle)
	int countdown = MAX_COUNTDOWN; LONG mainPortal; river 70	<pre>if ((type == K_ESCAPE)   (type == K_AF10)) (</pre>
# # # P	DAIVER_IO LONG removedCount;	return;
0 4 0 5	<pre>void (*ControlEntryPoint) () = NULL; LONG board;</pre>	) if (countdown == 0)
#endif	struct DriverConfigurationStructure *config;	<pre>{     Spin(NUTHandle);     countdown = MAX_COUNTDOWN;</pre>
	/* * Clear the screen by creating huge portal with VNORMAL attribute.	) ) if (exitFlag) return:
	.ScreenSize(&ScreenHeight, &ScreenWidth); reenHeight = ScreenHeight - NUTHandle->headerHeight; InPortal = NWSCreetPortal NUTHandle->headerHeight, 0,	<pre>removedCount = DIORemovedCount; choice = prevChoice = PackageDelivery ? 1 : 2; #else    while(1) { }</pre>
<u>``</u>		<pre>for(board = 0; board &lt; NumberOfLANs; board++)</pre>

```
", 586), &NUTHandle->messages);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWSClearPortal( NUTHandle->portal(mainPortal) );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      choice = NWSMenu(InxMSG("DPCAGENT Options", 151),
10, 40, defaultList, NULL, NUTHandle, NULL);
                                                                                                                                   NWSAppendToMenu(DYNAMIC_MESSAGE_ONE, 1, NUTHandle);
                                                                                                                                                   NWSAppendToMenu(DYNAMIC_MESSAGE_TWO, 2, NUTHandle);
NWSAppendToMenu(DYNAMIC_MESSAGE_THREE, 3, NUTHandle);
NWSAppendToMenu(DYNAMIC_MESSAGE_POUR, 4, NUTHandle);
NWSAppendToMenu(DYNAMIC_MESSAGE_FIVE, 5, NUTHandle);
NWSAppendToMenu(DYNAMIC_MESSAGE_SIX, 6, NUTHandle);
NWSAppendToMenu(DYNAMIC_MESSAGE_SIX, 6, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                     defaultList = NWSGetListHead(NUTHandle);
if (!PackageDelivery)
                                                                                                                                                                                                                                                                                                                                                                                                                /* Set defaultList to previous choice */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        defaultList = defaultList->next;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (removedCount != DIORemovedCount)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSDestroyMenu (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* Display Adapter Information
if (NWSPushList(NUTHandle)) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (NWSPushList(NUTHandle)) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (NWSPushList(NUTHandle)) (
  dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /* Display MLID Stats */
if (NWSPushList(NUTHandle))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (NWSPushList(NUTHandle))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           goto LookForAdapter;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for (1 = \text{choice} - 1; i; i--)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* Modem Configuration */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* Signal Strength Meter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DisplayPDInterface();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DisplayAdapterInfo();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DisplayMLIDStats();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DPCConfiguration();
                                                                                                                                                                                                                                                                                                                                                                prevChoice = choice;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          choice -= 1;
                                                       MSG("Exit DPCAGENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          switch (choice) (
                                                                                                                                                                                                                                                                                                             while (exitFlag == FALSE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DPCPointing()
                                                                                                     if (PackageDelivery)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          case 1:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        case 3:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              case 4:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    case 2:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           case 5:
      CLSLGetMLIDControlEntry(board, (void(*)())&ControlEntryP
                                                                                                                                                              config = (struct DriverConfigurationStructure *)
CommandMid(boar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , 150), &NUTHandle->messages);
                                                                                                                                                                                                                                                                                                                             if (!CStrCmp(configName, DPCName))
goto FoundDPCBoardNumber;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ", 501), &NUTHandle->messages);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , &MUTHandle -> messages);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MSG ("Display MLID Stats", 102), &NUTHandle->messages); NWSSetDynamicMessage (DYNAMIC_MESSAGE_THREE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ", 344), &NUTHandle->messages);
                                                                                                                                                                                                                                                                                                      configName = config->DShortName;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MSG("DPC Configuration ", 95), &NUTHandle->messages);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSGetKey(&type, &value, NUTHandle);
if ((type == K_ESCAPE) || (type == K_AF10))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSInitDhList(NUTHandle, Free); /* Don't sort menu items,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               * OK, We have a DPC MLID. Lets set up the main menu and
* wait for the user to do something.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSEnableInterruptKey(K_AF10, ExitHandler, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSEndWait (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSSetDynamicMessage (DXNAMIC_MESSAGE_FOUR,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSSetDynamicMessage (DYNAMIC_MESSAGE_SEVEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        countdown = MAX_COUNTDOWN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSSetDynamicMessage (DYNAMIC_MESSAGE_ONE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSSetDynamicMessage (DYNAMIC_MESSAGE_FIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSSetDynamicMessage (DYNAMIC_MESSAGE_SIX,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSSetDynamicMessage (DYNAMIC_MESSAGE_TWO,
dpcagent.c
                                                                                                                       if (ControlEntryPoint)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NWSKeyStatus(NUTHandle))
                                                                                                                                                                                                                                                      if (config)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * Initialize the main options menu.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BYTE *) "Package Delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Spin (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MSG("Adapter Information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (--countdown == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MSG("Dish Pointing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MSG("Modem Control
                                                                                                                                                                                                                      0, (LONG) ControlEntryPoint);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSEndWait (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     delay(500);
  Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                #if !DRIVER_IO
FoundDPCBoardNumber:
                                                                                              oint);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #endif
                                                                                                                                                                                                                          ò
```

Ţ	Thu Jui 17 14:46:11 1997 dpcagent.c	
	<pre>case 6:    /* Display Adapter Information */ if (NWSPushList(NUTHandle)) {    ModemControl();    NWSPopList(NUTHandle); }</pre>	* Output: * Nothing * Returns: * 0 if successfully initialized
	, break; default: if (NWSConfirm(InxMSG("Exit DPCAGENT?", 152), 0, 0, TRUE, NULL	rgv[]
	NUTHandle, NULL) == TRUE) TRUE;	LONG ser[2]; LONG scode; int i;
	<pre>if (choice != 7)</pre>	for (i = 1; i < argc; i++)
	) NWSDestroyMenu(NUTHandle);	<pre>if (ICmpB(argv[i], MSG("-DEBUG", 182), 6) == -1)  if ((DebugFlag = strtol(&amp;argv[i][6], 0, 16)) == 0) } }</pre>
*****	**************************************	<pre>/* Get a handle for allocating a resource tag */ NLWHandle = (struct LoadDefinitionStructure *)GetNLMHandle(); if (!NLMHandle)</pre>
* # # 0 1	Main thread. It will initialize the NUT screen and wait user input.	<pre>if ( ReturnMessageInformation((LONG)NLMHandle, (BYTE ***)&amp;NLMMessageTabl e, NULL, NULL, NULL))     return(-1);</pre>
* * *	Input: parm - ignored	OSGetCountryInfo( &GblDoSCountryInfo ),
* * * •	Nothing	<pre>/* Allocate a resource tag to use for memory allocations */ allocRTag = AllocateResourceTag(NLMHandle, TxtMSG("DPCAGENT Memory", 167 ),</pre>
	Returns: Nothing ************************************	AllocSignature); AESTag = AllocateResourceTag(NLMHandle, TxtMSG("DPCAGENT AES", 168).
pion	*parm)	AESProcessSignature); asyncIOTag = AllocateResourceTag(NLMHandle, TxtMSG("DPCAGENT Async I/O",
	E ii ji	ASYNCIOSIgnature); timerTag = AllocateResourceTag(NLMHandle, TxtMSG("DPCAGENT Delay Timer", TimerSignature);
* * * * * * * * * * * * * * * * * * * *	nt argc, char *argv[]) ption: Initialization routine.	<pre>if (allocRrag == NULL   </pre>
· •	Input: Nothing	) /* Create a screen for displaying our information */

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                                                                                                                                                                                                                                                                                                                                                                                                                             Shutdown routine. Returns the modules resources.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSUngetKey(UGK_ESCAPE_KEY, UGK_NORMAL_KEY, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   sage(ScreenHeight/2, ScreenWidth/2, NUTHandle,
InxMSG("Waiting for threads to Exit", 226));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   while(DPCFilePID || DPCModemPID || DPCAccessPID || DPCInetPID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * Give threads and NUT a chance to execute.
* Wait 1.5 seconds since signal meter and stats could be sleeping
                                                                                                                                                                                                                                                  - ignored
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        * Force NUT to escape out of all menus so that it can clean before we call NWSRestoreNUT(NUT has a bug were it will attempt to free up its memory twice(ABEND) if the user leaves the screen a couple of menus in before unloading the application from the command line.
                       dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             StartWaitWithMessage(ScreenHeight/2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ResumeThread(DPCAccessPID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ResumeThread(DPCInetPID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       = MAX_COUNTDOWN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ResumeThread(DPCAccessPID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void DPCPDTerminate (void);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         InReturnResources = TRUE;
                                                                                                ReturnResources(int sig)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for(i = 0; i < 4; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (InReturnResources)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void ReturnResources(int sig)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ExicingFlag = TRUE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DPCPDTerminate();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (AccessAsleep)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (AccessAsleep)
                                                                                                                                                                                                                                                                                                                  Nothing
                                                                                                                                                                                                                                                                                                                                                                                       Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (InetAsleep)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   countdown
          Page 49 Thu Int 1714:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * for up to a second.
                                                                                                                                             Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           delay(1500);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     = sig;
                                                                                                                                                                                                                                                                                                                                                               Returns:
                                                                                                                                                                                                                                                                                        Output:
                                                                                                                                                                                                                      Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sig
                                                                                                                                               ccode = NWSInitializeNut(InxMSG("DPC AGENT PROGRAM", 172), AGENT_VERSION
                                                                                                                                                                                                                                                                                               ConsolePrintf(TxtMSG("DPCAGENT: Unable to initialize NUT.", 174)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (OpenScreen(MSG("DPCAGENT Debug Screen", 224), screenTag, & DebugScree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ConsolePrintf(MSG("DPCAGENT: Unable to create debug screen.", 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DPC_TGID = GetThreadGroupID();
LogRegisterClient("SYS:DIRECPC/LOG.CFG", 2048, &LogClientHandle);
                                                                                                                                ScreenID = CreateScreen("DPCAgent Utility", AUTO_DESTROY_SCREEN);
          :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         32 * 1024, NULL);
        DPCAccessPID = BeginThread(AccessMain, NULL, NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DPCAgentPID = BeginThread(DPCAgentMain, NULL, NULL, NULL);
        And the see
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NULL, NULL, NULL);
                                                                                                                                                                                                             NULL, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DPCModemPID = BeginThread(DloMain, NULL, NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                           NLMMessageTable = (BYTE **)&(NUTHandle->messages);
                                                                                                                                                                                                                        ScreenID, (LONG) allocRTag, &NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RenameThread(DPCAccessPID, "DPCAgent Access");
                                                                                                                                                                                                                                                                                                                                                                                                                                          ^{\prime *} Get a connection with the server we're on ^{*}/ if (DebugFlag) (
          1=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DPCFilePID = BeginThread(DPCFileMain, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "DPCAgent Tinet");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LogRegisterEvent("ECB", &LogECBHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RenameThread(DPCModemPID, "DPCAgent Modem");
if (DPCMaxConnections) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "DPCAgent Main");
                                                                                                                                                                                                       NUT_REVISION_LEVEL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RenameThread(DPCFilePID, "DPCAgent PD");
          dpcagent.c
                                                                                                         /* Initialize the screen Interface */
                                      currentScreen = GetCurrentScreen();
SetAutoScreenDestructionMode(TRUE);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DPCInetPID = BeginThread(InetMain,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SetCurrentScreen(currentScreen);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           signal(SIGTERM, ReturnResources);
ExitThread(TSR_THREAD, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DestroyScreen(currentScreen);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (DebugFlag >= 0x51) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RenameThread (DPCInetPID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DPCSetMaxConnections(ser);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RenameThread(DPCAgentPID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DisplayScreen(ScreenID)
                                                                                                                                                                                                         SMALL_HEADER,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #endif /* LOG_ECB_ACTIVITY */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InetChangeProtocol();
                                                                                                                                                                                                                                                                                                                                                  return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (PackageDelivery)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DPCUpdateConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LOG_ECB_ACTIVITY
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                      (ccode)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 else (
                                                                                                                                                                                                                                                    # ~
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             #if DEBUG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        #ifdef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nID))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 5));
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the last the tent to the tent 
dpcagent.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     #ifdef Log_ECB_ACTIVITY
   if (DebugFlag >= 0x51) {
      LogDeregisterEvent(&LogECBHandle);
      LogDeregisterClient(&LogClientHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (Dlocfg.out_protocol == OUT_PPP)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                              if (--countdown == 0) {
   Spin (NUTHandle);
   countdown = MAX_COUNTDOWN;
                                                                                                                                                                               if (InetAsleep)
ResumeThread(DPCInetPID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CloseScreen (DebugScreenID);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ThreadSwitchWithDelay();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSEndWait(NUTHandle);
NWSRestoreNut(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DisconnectPPP();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            #endif /* LOG_ECB_ACTIVITY */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DIODeRegisterAgent();
               Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #if DEBUG_ALL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         #endif
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Page 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   UpdateFileStatus(MSG("Retry: Obtaining Encryption Keys", 257));
WaitingForKeys = TRUE;
                                                                                                                                                                                                                           UpdateFileStatus(MSG("Obtaining Encryption Keys", 204));
                                                                                                                                                                                                                                                                                                                                                                                                                                                         = open (MSG("SYS:DIRECPC\\DB\\DPC.CFG", 203), O_RDONLY);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &DacauRequest, sizeof(DACAUrequest_t));
&CASDBpacau, sizeof(CASDBbuffer));
&CASDBpeb, sizeof(CASDBbuffer));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                &CDBEthVersion, sizeof(CDBEthVersion));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      into the appropriate globale variables.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              &CDBVersion, sizeof(CDBVersion));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 &DacauFlag, sizeof(DacauFlag));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   &DacauTime, sizeof(DacauTime));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CASDBdacau.version = CASDBecau.version = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            = CASDBecau.entries = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CASDBpeb.entries = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CASDBpacau.version = CASDBpeb,version = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sizeof(SiteID));
        access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for (k = 0; k < MAX_MAC_RECORDS; k++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - PACAU_LEN
                                                                                                                                                                                                                                                                                                                                                  for (k = 0; k < MAXELEMENTS; k++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CASmacs[k].in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                    UpdatedElements[k].in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              &SiteID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASDBpacau.entry_len = PACAI
CASDBpeb.entry_len = PEB_LEN;
CASDBdacau.entry_len = DACAU_LEN;
CASDBecau.entry_len = ECAU_LEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CASDBpacau, entries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASDBdacau, entries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SiteID[0] = '\0';
                                                                                                                                                                                                                                                                                                                                                                                     Elements[k].in_use = 'N'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     close (handle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           read(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               read(handle,
                                                                                                                                                                                                                                                               ReadConfig (void)
                                                                                                                                                                                                                                                                                                handle, k;
                                                                                                                                                                                                                                                                                                                *mem_ptr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(handle != -1)
                                                                                     Nothing
                                                                                                                                        Nothing
                                                                                                                                                                                          Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (handle !=
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (DacauFlag)
| Page 1 Thu Jul 17 14:46: 11 1997
                                                                                                                                                                             Returns:
                                                                                                                        Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                          handle
                                                                      Input:
                                                                                                                                                                                                                                                                                                int
BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                               void
                                                                                                                                                                                                                                                               static
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               u
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This routine reads the DPC.CFG file and stores the conte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* Access thread needs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mail from Mark
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bypass/norm */
MAC_NORMAL ),
MAC_BYPASS ),
MAC_NORMAL ),
MAC_NORMAL ),
MAC_BYPASS )
                                                                                                        WaitingForKeys = FALSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = ( 0x11, 0x11, 0x11, 0x11, 0x11, 0x11, 0x11, 0x11 );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           here */
Ų.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MACrecord_t CASmacs[MAX_MAC_RECORDS];
BYTE AccessAddress[] = [0x03, 0x00, 0x00, 0x00, 0x00, 0x00];
LONG AccessAsleep = FALSE;
o wake up flag */
   Take ECBs from he
Put ECBs here */
                                                                                     AccessChannel = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MAC_INDIVID,
MAC_MULTICAST,
MAC_MULTICAST,
MAC_MULTICAST,
 ğ illi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MAC_INDIVID,
                                                   Our header file */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AccessMessage[1500];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         indiv/mult
                                                                                                                                                                                                                                                                                                                                                                                                    static CDBelement_t Elements[MAXELEMENTS];
static CDBelement_t UpdatedElements[MAXELEMENTS];
access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Table used by MACbuildAddr().
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          • •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        _
11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                element key used by LroSetAddress,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ECB linked list varaibles.
                                                                                                                                          * Access Configuration Variables
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       char table[5][2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *AccessECBHead
*AccessECBTail
                                                                                                                                                                                                                                                                                  DACAUrequest_t DacauRequest;
CASDBbuffer CASDBpacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /* Stores current packet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 BYTE SerialNum[9];
BYTE SerialNumPacked[3];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ReadConfig(void)
                                                                                                                                                                                                                                                                                                                                    CASDBdacau;
                                                                                                                                                                                                               CDBEthVersion = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * * * * *
                                                                                                                                                                                                                                                                                                                                                     CASDBbuffer CASDBecau;
                                                                                                                                                                                                                                                                  LONG RndDacauTime = 0;
                                                   #include "dpcagent.h"
                                                                                                                                                                                                                                                                                                                    CASDBpeb;
                                                                                                                                                                                                                                                                                                                                                                                         /* Elements tables */
                                                                                                                                                                                              CDBVersion = 0;
    Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Package Delivery
                                                                                                                                                                                                                                  DacauFlag = 0;
                                                                                                                                                                                                                                                DacauTime = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Hybrid Internet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CAS individual
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BYTE MagicKey[]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * Address Type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        static unsigned
                                                                                                                                                                             SiteID[9];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    o wake up flag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BYTE *RcvBuf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Data Feed
BYPASS
                                                                                                                                                                                                                                                                                                                     CASDBbuffer
                                                                                                                                                                                                                                                                                                                                    CASDBbuffer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ECB
ECB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static 1
static 1
                                                                                                                                                                             BYTE
                                                                                                                                                                                                             WORD
                                                                                                                                                                                                                               BYTE
                                                                                                                                                                                                                                                LONG
                                                                                        LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      BYTE
                                                                                                         ıı
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Page 6
                                                                                                                                                                         - index of the element t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DIODeleteAddress(Elements[e_num].channel, (BYTE *)&Elements[e_num].e_mac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(CASmacs[k].in_use == 'Y' &&
CCmpB(&CASmacs[k].dpc_mac, &Elements[e_num].e_mac, sizeof(MACadd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This routine replaces the version numbers of the element
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                - Index of Eleme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - new version to
                                                                                                                                                                                                                                                                                                                                              This routine deletes and from the CASDB and from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 经经济股份证据 医多种性白斑 医电子性电子性 医甲腺素 医甲状腺素 医甲状腺素 医甲状腺 医皮肤 医皮肤 医医皮肤 医医皮肤 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            static replace_peb_element(int num, unsigned char new_ver)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         replace_peb_element(int num,
unsigned char new_ver)
            access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    for(k = 0; k < MAX_MAC_RECORDS; k++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   indexed by num.
                                                                                                                                                                                                                                                                                                                                                                                         static del_peb_element(int e_num)
                                                                                                          adapter,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CASmacs[k].in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Elements[e_num].in_use = 'N'; return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    new_ver
stuff into Element entry
                                                                                                                                                                                                                                               nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int_num
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nothing
                                                                                                                                                                         e_num
Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description:
                                                                                                                                                                                                                              Output:
                                                                                                                                                                                                                                                                                           Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Output:
                                                                                                                                                 Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int k;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nt to modify
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                r_{-}(t)) == -1)
                                                                                                                                                                                       o delete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              p_peb = (MUXpeb_t *)(CASDBpeb.p_buffer + i);
if(CCmpB(&p_peb->elementid, &element_pattern, sizeof(ID)) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            *******************************
                                                                                                                                        p_ecau = (MUXecau_t *)(CASDBecau.p_buffer + i);
if(CCmpB(&p_ecau->groupid, &group_pattern, sizeof(ID)) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static MUXpeb_t *find_peb(ID element_pattern, char ver_pattern)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             num_addr = p_peb->num_addr[0];
num_addr |= ((unsigned short)p_peb->num_addr[1]) << 8;
i += num_addr * MAC_LENGTH;</pre>
                                                                                                                                                                                                                                                                                                                                            if(ver_pattern == p_ecau->version)
                                                                                             for(i = 0; i < CASDBecau.length; i += ECAU_LEN)
{</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (ver_pattern == p_peb->version)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for(i = 0; i < CASDBpeb.length; i += PEB_LEN)
         access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /*
* Deletes element not only from the CASDB
* but from adapter as well
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unsigned short i, num_addr;
MUXpeb_t *p_peb, *ret = NULL;
                                             int 1;
MUXecau_t *p_ecau, *ret = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 del_peb_element(int e_num)
                                                                                                                                                                                                  if (ver_pattern == -1)
                                                                                                                                                                                                                                                                                                                                                                                     ret = p_ecau;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if(ver_pattern == -1)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ret = p_peb;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ret = p_peb;
                                                                                                                                                                                                                                           ret = p_ecau;
break;
                                                                                                                                                                                                                                                                                                          else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  break;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return (ret);
```

```
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                                                                                                                                                                                                                   group pattern to match - version portion of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         key to reverse
                                                                                                                                     This routine attempts to locate a dacau given a group pattern.
                                                                                                                                                                                                                                                                                                                                                                                                *************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This routine swaps the byte order of the 8 byte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         p_dacau = (MUXdacau_t *)(CASDBdacau.p_buffer + 1);
if((CCmpB(&p_dacau->groupid, &group_pattern, 3)) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                        MUXdacau_t *find_dacau(ID group_pattern, char ver_pattern)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for(i = 0; i < CASDBdacau.length; i += DACAU_LEN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (ver_pattern == p_dacau->version)
                                                                                                                                                                                                                                                                                                                                              pointer to dacau if successful Otherwise NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ret = p_dacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pointer to pacau if successful
Otherwise NULL
                 access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              key passed in.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int i;
WUXdacau_t *p_dacau, *ret = NULL;
                                                       find_dacau(ID group_pattern,
char ver_pattern)
                                                                                                                                                                                                             group_pattern
ver_pattern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ret = p_dacau;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  reverse_key(BYTE *key)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(ver_pattern == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
      Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   key
                                                                                                                                                                                                                                                                                                                           Returns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Returns:
                                                                                                                                                                                                                                                                                          Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Output:
                                                                                                                                                                                            Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Input:
                                                                                                                                                                                                                                                    pattern
                                                                      if(CASmacs[k].in_use == 'Y' &&
CCmpB(&CASmacs[k].dpc_mac, &Elements[num].e_mac, sizeof(MACaddr_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the
                                                                                                                                                                                                                                                                                                                                                                                                                                    This routine attempts to locate a pacau given a group
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   - version portion of
                                                                                                                                                                                                                                                                                                                     ********************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                In the first first first first first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - group pattern to match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           p_pacau = (MUXpacau_t *) (CASDBpacau.p_buffer + i);
if((CCmpB(&p_pacau->groupid, &group_pattern, 3)) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MUXpacau_t *find_pacau(ID group_pattern, char ver_pattern)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        for(i = 0; i < CASDBpacau.length; i += PACAU_LEN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if(ver_pattern == p_pacau->version)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pointer to pacau if successful
access.c
                                                                                                                                                                                                          Elements[num].e_mac.Ver = new_ver;
Elements[num].e_ver = new_ver;
return 0;
                                                                                                                                             CASmacs(k).dpc_mac.Ver = new_ver;
break;
                                    for (k = 0; k < MAX_MAC_RECORDS; k++)
                                                                                                                                                                                                                                                                                                                                                           find_pacau(ID group_pattern,
char ver_pattern)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MUXpacau_t *p_pacau, *ret = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           pattern.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Otherwise NULL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               group_pattern
ver_pattern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ret = p_pacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ret = p_pacau;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if(ver_pattern == -1)
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                                                                                                                                                                                                                                                                                                                                                                                                                     Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return (ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Input:
                                                                                                              -1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pattern
                                                                                                                ##
##
```

]	
*****	array to 3 byte array
void reverse_key(BYTE *key)	Output
unsigned char x;	
<pre>x = key[0]; key[0] = key[1]; key[1] = x; x = key[2]; key[2] = key[3]; key[3] = x; x = key[4]; key[4] = key[5]; key[5] = x; x = key[6]; key[6] = key[7]; key[7] = x;</pre>	* Returns: 0 if successful * ***********************************
医生物学 经有效 计对象 经有效 有 计多数 化聚苯基苯基 化聚苯基苯基 化二氯甲甲甲基苯基 医二甲基甲基苯基 医二甲基甲基苯基 医二甲基甲基苯基	static int43(LONG id, BYTE *array)
make_element_id(BYTE *e_id, char *e_id_tx	union ( BYTE b[4]; LONG w;
* Description:  This routine is called by LroSetAddress to help	int status = 0;
* Input: e_id * element id.	offset.w = id; if (offset.b[2] & 0xc0)) (
<pre>* Output:</pre>	else (   array[0]=array[1]=array[2] = 0;   status = -1;
* Returns:	return status;
\-************************************	***************************************
<pre>void make_element_id(BYTE *e_id, char *e_id_txt) {</pre>	* MACbuildAddr(char *element_txt,  * int feature,
<pre>BYTE work[3]; static char Hexchar[] = MSG("0123456789ABCDEF", 208); unsigned char Ch, "p;</pre>	* BYTE ver,  * MACaddr_t *address)  *
<pre>int count = 3, i = 0; work[0] = e_id[2];</pre>	Description: This routine is called by LroSetAddress to build a MAC address out of a file_id and community id.
work(2) = e_id(0);	file id
p = work; while (count)	ature - MAC_HI, MAC_CAS_
Ch = *p++; e_id_txt[i++] = HexChar[Ch>>4]; /* high nibble */	BYPASS_MULTICAST - low byte of co
<pre>e_id_txt[i] = '\0';</pre>	ing address address tore the result
***************************************	• Output:
tint43(LONG id, BYTE "array) 	Returns: 0 if successful
<ul> <li>Description:         This routine is called by MACbuildAddr to convert         an id to its 3 byte equivalent.</li> </ul>	* * * * * * * * * * * * * * * * * * * *
Input:	<pre>int MACbuildAddr(char *element_txt, int feature, BYTE ver, MACaddr_t *address)</pre>
id to convert	LONG 1,

```
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                                                                                                                                                                                                                                                                                                                                                   (unsigned char *)p_peb + PEB_LEN + j*MAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - 3 byte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 byte version
                         Find the elements index into the Element table.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          38
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          7
                                                                                                                                                                                                                                                                       å
                                                                                                                                                                                                                                                                       ٧
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nts[k].in_use == 'Y' && CCmpB(&Elements[k].e_id, &id, sizeof(ID))
                                                                                                                                                                                                                         p_peb = (MUXpeb_t *)(CASDBpeb.p_buffer + i);
num_addr = p_peb->num_addr[0];
num_addr |= ((unsigned short)p_peb->num_addr[1])
                                                                             static MUXpeb_t *find_peb_mac(MACaddr_t mac_pattern)
                                                                                                                                                                                    for (i = 0; i < CASDBpeb.length; i += PEB_LEN)
     access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             += num_addr * MAC_LENGTH;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         otherwise its the index
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ver)
                                                                                                                          unsigned short i, j, num_addr;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Elements(k).e_ver == ver)
                                                                                                                                                                                                                                                                                      for (j = 0; j < num\_addr; j++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           for (k = 0; k < MAXELEMENTS; k++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static find_element_id(ID id, BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BYTE ver)
                                                                                                                                             MUXpeb_t *p_peb, *ret = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -1 if not found
                                                                                                                                                                                                                                                                                                                                                                                                                               goto peb_mac_exit;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (Elements[k].in_use
                                                                                                                                                                                                                                                                                                                             if(CCmpB(&mac_pattern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               find_element_id(ID id,
                                                                                                                                                                                                                                                                                                                                                                                                             ret = p_peb;
                                                                                                                                                                                                                                                                                                                                                                    _LENGTH, MAC_LENGTH) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Nothing
   | Fage II| Thu Juli 1 1346811 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(ret);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ver
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        įq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int ret = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ret = k;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int k;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      peb_mac_exit:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Finds the PEB entry which contains the mac address passe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MAC address to search
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ************************
 He had been four the He
                                                                                                                                                                                                                                                                                      9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NULL if no entry found Otherwise its a pointer to the PEB entry
                                                                                                                                                                                                                                                                element[k] = element[k] << 2;
element[k] |= ((k == 2) ? 0x00 : element[k+1]) >>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             address->Reserved[0] = address->Reserved[1] = 0x00; if(feature == MAC_DF)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Set application ID or Version number */
access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                address->Element[0] |= MAC_MULTICAST;
/* Set Bynass/Normal */
                                                                                                                                         sscanf(element_txt, MSG("%1x", 137), &i);
if((status = int43(i, element)) != 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  address->Ver = ver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                find_peb_mac(MACaddr_t mac_pattern)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             address->Element(0) |= MAC_BYPASS;
                                                                                                                                                                                                                                                                                                                                                                                                                        if (table [feature] [0] == MAC_MULTICAST)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if(table[feature][1] == MAC_BYPASS)
                                                                                                                                                                                                                                                                                                                                            address->Element[0] = element[2];
address->Element[1] = element[1];
address->Element[2] = element[0];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                address->Ver = 0x02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         address->Element(2) = 0xff;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      case MAC_BYPASS_MULTICAST:
                                                                            if (feature < 0 \mid | feature > 5)
                                                                                                                                                                                                                                                                                                                                                                                                       /* Set Multicast/Individual *,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /* Set Bypass/Normal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             address->Ver = 0x01;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        address->Ver = 0x00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           mac_pattern
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               default:
                                                                                                                                                                                    return(status);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       case MAC_CAS_IND:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return(status);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Nothing
                                                                                                                      /* Steb one */
                                                                                                                                                                                                        * Step two */
                                      int k, status = 0;
                                                                                                                                                                                                                           for(k=0; k<3; k++)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               case MAC_HI:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description:
                                                                                                      return(-1);
                                                                                                                                                                                                                                                                                                                           Step three */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    switch (feature)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Input:
```

Thu Jul 17 14:46:11 1997  return ret;  /***********************************	Rage to Thu July 1 14463111997 * Returns: TRUE if packed successfully
<pre>* hextoi(int c)  * Description:</pre>	define LEFT 0 define RIGHT 1 nt pack_mac_addr (BYTE *packed_address, int packed_address_len, BYTE *address, int address_len)
* Input: * c - ASCII	BYTE c, side; int i, j;
* Output: * Nothing * Returns:	* Pack hex digit ascii string in "address" into binary in "packed_address". Return FALSE if unsuccessful. If number of hex digits in "address" dannot fill "packed_address", then "nacked address", then
* -1 if not hex character  * otherwise its the integer equivalent  ***********************************	rs packed of the right cked_address_len; i++) s(i) = 0;
static int hextoi(	for (i = 0, j = 0; i < address_len; i++)
<pre>char digit, lower, upper; digit = (c &gt;= '0' &amp;&amp; c &lt;= '9'); lower = (c &gt;= 'a' &amp;&amp; c &lt;= 'f'); upper = (c &gt;= 'A' &amp;&amp; c &lt;= 'f');</pre>	<pre>if ((c = hextoi(address[1])) == 0xff)  return (FALSE);  if (side == LEFT)  {</pre>
<pre>if (digit) return (c - '0');</pre>	Q = Q << 4;
<pre>if (lower) return (c - 'a' + 10);</pre>	<pre>packed_address[j]  = c; if (++side &gt; RIGHT)</pre>
<pre>if (upper) return (c - 'A' + 10);</pre>	<pre>side = LEFT; if (++j &gt; packed_address_len)</pre>
return (-1);	return (FALSE); )
***************************************	return (TRUE);
<pre>pack_mac_addr(BYTE *packed_address,  t</pre>	check_df_groups(void)
<ul> <li>Description;</li> <li>Converts a character string containing the mac address into</li> </ul>	* Description: This function is called when new PACAU or DACAU is proce
packed BCD digits.	It checks if there are any changes in groups membership to avoid receiving DF elements when membership of this a
input: packed_address_len - length of the packed buffer address	to the proper DF group
nver. * address_len - length of the hex ASCI I string	Input: Nothing
output:  packed_buffer - buffer to write packed address into.	Output: Nothing Returns: 0 if check was successful
	7 :

```
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      - length of the message received
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parse the ECAU packet. Replace the old entry by the new one as long as version doesn't match CASDBecau versi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         - pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      memcpy(&DacauRequest.d_version, buf + 8 + sizeof(VER), sizeof(VER));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CASDBpacau.entries = CASDBpacau.length / CASDBpacau.entry_len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WaitingForKeys = TRUE;
UpdateFileStatus(MSG("Obtaining Encryption Keys", 138));
                                                                                                                                                                                                                                                                                                                                                                                                                             if(curr_d_version != CASDBdacau.version) (
   /* There are some changes in the DACAU staff
   /* Build DACAU request */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CASDBpacau.version = curr_p_version;
CASDBpacau.length = len - PACAU_HEAD_LEN;
    access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(curr_p_version != CASDBpacau.version)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CASDBdacau.version = curr_d_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DacauRequest.d_version.1[3] |= 0x80;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         parse_ecau(BYTE *buf, WORD len)
                                                               buf[9] * 256UL +
buf[10] * 256UL * 256UL +
buf[11] * 256UL * 256UL * 256UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               RndDacauTime = time(0) + rand();
                                                                                                                                                                                                                                                                                                                                                            buf[18] * 256UL * 256UL +
buf[19] * 256UL * 256UL;
                                                                                                                                                                                                                           * 256UL * 256UL +
* 256UL * 256UL * 256UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     memcpy(CASDBpacau.p_buffer,
buf + PACAU_HEAD_LEN,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CASDBpacau.length);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DacauFlag = 1;
srand(time(0));
DacauTime = curr_d_time;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #ifdef USE_NEW_MIPS_CODE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             check_df_groups();
                                                                                                                                                                                                    * 256UL +
                                                                                                                                                                                                                                                                                                                                       buf[17] * 256UL +
curr_d_version =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pnq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CDBVersion++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDBVersion++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SaveConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SaveConfig();
                                                                                                                                                                                                                                                                                            curr_d_time =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Input:
                                                                                                                                                                                buf[12]
buf[13]
                                                                                                                                                                                                                                                                                                                   buf[16]
                                                                                                                                                                                                                             buf[14]
                                                                                                                                                                                                                                               buf[15]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           - length of the message received
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parse the PACAU packet. This is where we detect that we must receive a new key via the modem(packets d version will not match CASDBdacau.version.
                                                         ***************
                                                                                                                                                                                                                                                                                      if(Elements[i].in_use == 'N' || Elements[i].packfeed != 'F')
                                                                                                                                                                                                                                                                                                                                   if((p_peb = find_peb(Elements[i].e_id, -1)) == NULL)
                                                                                                                                                                                                                                                                                                                                                                                pacau = find_pacau(p_peb->groupid, p_peb->version);
dacau = find_dacau(p_peb->groupid, p_peb->version);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* New Site ID - reset versions of PACAU, DACAU,
CASDBpacau.version = 0;
CASDBdacau.version = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                if (dacau == NULL && pacau == NULL) {
   /* We have no group for this element */
   del_peb_element(!);
          access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8) i= ESUCCESS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            successfully parsed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           parse_pacau(BYTE *buf, WORD len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static parse_pacau(BYTE *buf, WORD len)
                                                                                                                                                                                                                                                                      for (i = 0) i < MAXELEMENTS; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  strncpy(SiteID, buf, 8);
                                                                                                            static check_df_groups(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(strncmp(buf, SiteID,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LONG curr_p_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       curr_d_version;
                                                                                                                                                                            MUXpacau_t *pacau;
                                                                                                                                                                                                  MUXdacau_t *dacau;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0 if
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG curr_d_time;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Description
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             len
                                                                                                                                                                                                                         MUXpeb_t *p_peb;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                pnt
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SiteID[8] = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         curr_p_version =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CDBVersion ++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SaveConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int ret = 0, k;
                                                                                                                                                                                                                                                                                                                   continue;
                                                                                                                                                                                                                                                                                                                                                            continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Returns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Output:
                                                                                                                                                           int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LONG
```

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pacau = find_pacau(p_peb->groupid, p_peb->version);
dacau = find_dacau(p_peb->groupid, p_peb->versio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DIODeleteAddress(Elements[i].channel, (BYTE *)&E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ecb.ECB_StackID = MLID_ADD_ADDRESS;
ecb.ECB_Fragment[0].FragmentAddress = &c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (DIOAddGroupAddress(Elements[i].chann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            channelCfg.CfgChannel = Elements[i].chan
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CMovB(&Elements[i].e_mac, channelCfg.Cfg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CMovB(key, channelCfg.CfgGroupKey, 8);
CMovB(&MagicKey, channelCfg.CfgElementKe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (loctlMlid(FDBboard, &ecb, FDBControl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (BYTE *)&pacau->g_key))
                                                                                                                                                                                                                                                                                                                                                                                      -1)) == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* It means, that we somehow miss key update */
/* Replace inside adapter and in CDB. */
/* Delete address */
                                                                                                                                                                                               - PEB_HEAD_LEN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    channelCfg.CfgNumAddresses =
                                                                                                                                                                                                                                                                                                                                          del_peb_element(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CMovB(&pacau->g_key, key,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Replace element in the CDB */
                                                                                                                                                                                                                                                                                                                                                                                    if ((p_peb = find_peb(Elements[i].e_id,
                                                                                                                                                                                                                              CASDBpeb.entries = CASDBpeb.length / CASDBpeb.entry_len; /* Walk throught the elements table and check ... */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         reverse_key(&key);
                                                                                                                                                                                         CMovB(buf + PEB_HEAD_LEN, CASDBpeb.p_buffer, len
CASDBpeb.length = len - PEB_HEAD_LEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              replace_peb_element(i, p_peb->version);
/* Trying to Add address */
/* At first find group for the element */
                                                                                                                                                                                                                                                                                                                                                                                                                       /* Element no longer valid: Delete.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pacau = (MUXpacau_t *)dacau;
if(pacau != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (dacau != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(p_peb->version |= Elements(i).e_ver)
 access.c
                                                                                    if (curr_version != CASDBpeb.version)
                                                                                                                                                                                                                                                                                                                                                                 continue;
                              buf[3] * 256UL * 256UL * 256UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        *
                                                                                                                                                                       CASDBpeb.version = curr_version;
                                                                                                                                                                                                                                                                                                 for(i = 0; i < MAXELEMENTS; i++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* Find a group, Add
                                                                                                                                                                                                                                                                                                                                                                                                                                                del_peb_element(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         el, (BYTE *)&Elements[i].e_mac,
                                                                                                                                                CDBEthVersion++;
                                                                                                                             CDBVersion++;
lements[i].e_mac);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |//
|Entry| |= 0|
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hannelCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Address,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   y, 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              //
nel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>۔</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              - length of the message received
                                                                                                                                                                    ************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Check elements and add new addresses to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASDBecau.version = curr_e_version;
CMovB(buf + ECAU_HEAD_LEN, CASDBecau.p_buffer, len - ECAU_HEAD_LEN);
CASDBecau.ength = len - ECAU_HEAD_LEN;
CASDBecau.entries = CASDBecau.length / CASDBecau.entry_len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               entry by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the old
   14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Parse the PEB packet. Replace
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MLID and delete old ones.
                                                                                                                                                                                                                                                                                                                                                                                                                                                if(curr_e_version != CASDBecau.version)
                                                                                                                           0 if successfully parsed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0 if successfully parsed
                                                                                                                                                                                                                                                                                                                                                                                                      * 256UL * 256UL;
                                                                                                                                                                                                            static parse_ecau(BYTE *buf, WORD len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *buf, WORD len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static parse_peb(BYTE *buf, WORD len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             buf[1] * 256UL +
buf[2] * 256UL * 256UL +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       new one.
                                                                                                                                                                                                                                                                                                                                                                                * 256UL
                                                                                                                                                                                                                                                                                                                                            pnf[0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MUXpeb_t *p_peb;
unsigned long curr_version;
                                                                                                                                                                                                                                                                                                                                                     buf[1] * 256UL +
buf[2] * 256UL *
buf[3] * 256UL *
                                                             Nothing
                                                                                                                                                                                                                                                       LONG curr_e_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int i, k, macs,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                parse_peb(BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             buf[0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDBVersion++;
 Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MUXpacau_t *pacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MUXdacau_t *dacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SaveConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      buf
                                                                                                                                                                                                                                                                                                                    curr_e_version
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      curr_version =
                                                                                                        Returns:
                                            Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Returns:
                                                                                                                                                                                                                                                                            int ret = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int ret = 0;
```

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Page 20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               감
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  p_pacau_tmp = (MUXpacau_t *)(CASDBpacau.p_buffer + CASDBpacau.le
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    - pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          - length of the message received
                                                                                                                                                                                                                                                                                                                                                                                                                                                              for(i = 0; i < p_gup_head->entries && curr_len < len; i++, len += GUP_LEN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Parse the UPDATE_PEB packet. Replace the old entry by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CMovB(&p_gup_head->groupid, &p_pacau_tmp->groupid, sizeof(ID));
p_pacau_tmp->version = p_gup_head->g_ver;
CMovB(&p_gup_element->g_key, &p_pacau_tmp->g_key, sizeof(chunk));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       7
                                                                                                                                                                                                                - SerialNum[i];
                                                                                                                                                                                                                                                index = CCmpB(&p_gup_head->adapterend, SerialNum, sizeof(ID));
if (index == -1)
                                                                                                                                                                                                                                                                                                                                      end = p_gup_head->adapterend.i(index) - SerialNum[i];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      p_gup_element = (GUPid_t *)(buf + GUP_HEAD_LEN + i*GUP_LEN);
if(CCmpB(&p_gup_element->adapternum, SerialNum, sizeof(ID))
                                                                                                                             index = CCmpB(&p_gup_head->adapterstart, SerialNum, sizeof(ID));
if (index == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      new one according to the Element ID
                                                                                                                                                                                                            start = p_gup_head->adapterstart.i[index]
           access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CASDBpacau.length += PACAU_LEN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0 if successfully parsed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *buf, WORD len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                static update_peb(BYTE *buf, WORD len)
                                   p_gup_head = (GUPhead_t *)buf;
                                                int index, start, end;
                                                                                                                                                                                                                                                                                                                                                                                                  6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MUXpacau_t *pacau = NULL;
MUXdacau_t *dacau = NULL;
                                                                                                                                                                                                                                                                                                                                                                                                if(start <= 0 && end >=
                                                                                                                                                                   start = 0;
                                                                                                                                                                                                                                                                                               end = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 update_peb(BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                          CDBVersion++;
Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1en
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Jnq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Input:
                                                                                                                                                                                           else
                                                                                                                                                                                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ngth);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               to the PACAU buffe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               - pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - length of the message received
                                                                                                                                                                                                                                                                                                                /* There are no ethernet addresses for the element */ del_peb_element(i);
                                                                                        /* Can't find group for this element */
/* We are not subscribed on this group any more */
/* Delete element. */
del_peb_element(i);
                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Somebody in the NOC has deleted Ethernet */ /* address of this element... */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Parse the GUP packet. Add new entries
                                                                                                                                                                                                                                                                                                                                                                                                                       == NULL)
                                                                                                                                                                                                                                    /* Check Ethernet addresses within Element.
                                                                                                                                                                                                                                                                                                                                                                                                                     if(find_peb_mac(CASmacs[k].e_mac)
       access.c
                                                                                                                                                                                                                                                       macs = not_found = 0;
for(k = 0; k < MAX_MAC_RECORDS; k++)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CASmacs[k].in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0 if successfully parsed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *buf, WORD len]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             static parse_gup(BYTE *buf, WORD len)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MUXpacau_t *p_pacau_tmp;
int i, curr_len = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "p_gup_head;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         *p_gup_element;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (macs == not_found)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       not_found++
                                                                                                                                                                                                                                                                                                                                                           izeof(MACaddr_t) == -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 parse_gup(BYTE
             Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             buf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SaveConfig();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GUP1d_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GUPhead_t
MUXpacau_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return ret;
```

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Page 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  - pointe
                                                                        ret_code = DIOAddGroupAddress(Elements[found_element].ch
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           packets from the MLID. If we have, the data is copied from the ECB to the message and the ECB is returned to t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* copy the data past the lroinfo to the message */
CMovB(ecb->ECB_Fragment(0).FragmentAddress, message, ecb->ECB_Fragment(0)
                                                                                                                           (BYTE *)&Elements[found_element],e_mac,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         replace_peb_element(found_element, new_peb->version);
CMovB( (unsigned char *)new_peb, (unsigned char *)found, PEB_LEN - 2);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ***********
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      to see if we've received any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if a packet has been received
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* Extract an ECB from the linked list if one exists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  message and Iroinfo filled in if successful
                                                                                                                                                                                                                                                                                                     /* Change PEB database for this element */
  access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This routine checks
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AccessECBHead = ecb->ECB_NextLink;
                                                                                                                                                                                                                        /* No group, Delete element */
del_peb_element(found_element);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* return the ecb to the LSL */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Just return
  ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AccessReceive (char *message)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AccessReceive (char *message)
                                                delay(120);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AccessECBTail = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (0 ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LSL.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ecb = AccessECBHead;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 /* No ecb.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (AccessECBHead
                                                                                                                                                                                                                                                                                                                                                                                                                                                               return (ret_code);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Enable();
                                                                                                                                                  (BYTE *) &pacau->g_key);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          to where to copy data
Page 21 Thu Jul 17 14,46311 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disable();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ].FragmentLength);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ECB *ecb;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (lecb)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Enable();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Returns:
                                                                                                                                                                                                                                                                                                                        if (|ret_code)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Input:
                                                                                                                                                                                                      else
                                                                                                    annel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F. L. B. Den Stone Street Level.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      found_element = find_element_id(old_peb->elementid, old_peb->version);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             new_peb = (MUXpeb_t *) (buf + PEB_HEAD_LEN + PEB_LEN);
if((found = find_peb(old_peb->elementid, old_peb->version)) == NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CMovB(&Elements[found_element], &UpdatedElements[found_element],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pacau = find_pacau(new_peb->groupid, new_peb->grversion);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dacau = find_dacau(new_peb->groupid, new_peb->grversion);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     next replace element command,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    UpdatedElements[m].in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * After this operation in the adapter will be * both old and new element's addresses and keys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       /* Yes. We are receiving this element now.
* Let's keep old element's address
* in the UpdatedElement table
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* Has been the element loaded before? */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          it means, that the previous element
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     old_peb = (MUXpeb_t *)(buf + PEB_HEAD_LEN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       we can delete old address and keys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    * Trying to find a group for the element
  access.c
                                                                                                                                                                                                                                                                                                                                                                                if(curr_version == CASDBpeb.version)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    has already been updated at the
DataFeed Lan Gateway and
                                                                                                                                                                                                                                                                         buf[1] * 256UL +
buf[2] * 256UL * 256UL +
buf[3] * 256UL * 256UL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 for(m = 0; m < MAXELEMENTS; m++)
                                                                                                                                                                       if(len != 2 * PEB_LEN + PEB_HEAD_LEN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (UpdatedElements[m].in_use ==
                                              *new_peb, *found;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sizeof(CDBelement_t));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Put element in the adapter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pacau = (MUXpacau_t *)dacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CASDBpeb.version = curr_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                /* Nothing to replace - ERROR */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (pacau != NULL)
                                                                                                 short ret_code = 0;
unsigned long curr_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* We have received
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if(found_element != -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * from adapter
                                                                                                                                                                                                                             curr_version =
                                                                                                                                                                                                                                                    buf [0]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(dacan != NULL)
                                                MUXpeb_t *old_peb,
                                                                                                                                                                                                                                                                                                                                                                                                                                   CDBVersion++;
                                                                     int found_element;
  Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                           CDBEthVersion++;
                                                                                                                                                                                                   return(0);
                                                                                                                                                                                                                                                                                                                                                                                                              return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(0)
```

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Page 24
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Replace the old DACAU buffer by the new one if the the v
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       - pointer to the message receive
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            - length of the message received
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Parse the new DACAU from the message received by the mod
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CASDBdacau.version = curr_d_version;
CMovB(buf + DACAU_HEAD_LEN, CASDBdacau.p_buffer, len - DACAU_HEAD_LEN);
CASDBdacau.length = len - DACAU_HEAD_LEN;
CASDBdacau.entries = CASDBdacau.length / CASDBdacau.entry_len;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          在我有我的最后的 医水水 化水水板 化对抗性 化分析 的复数的 医多种 医多种 医多种 医多种的 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种 医多种性 医克里特氏病
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      matches what we have in the CASDBdacau version
                                                                                                             status = parse_pacau(p_packet->payload+1, p_packet->length-1);
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 status = update_peb(p_packet->payload+1, p_packet->length-1);
                                                                                                                                                                                                                           status = parse_ecau(p_packet->payload+1, p_packet->length-1);
                                                                                                                                                                                                                                                                                                                                         status = parse_peb(p_packet->payload+1, p_packet->length-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                       status = parse_gup(p_packet->payload+1, p_packet->length-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (curr_d_version == CASDBdacau.version) (
                    access,c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        buf[2] * 256UL * 256UL +
buf[3] * 256UL * 256UL * 256UL;
                                                   :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static int parse_dacau(BYTE *buf,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unsigned long curr_d_version;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0 if successful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  parse_dacau(BYTE *buf,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               check_df_groups();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     buf[1] * 256UL +
| Page 23| THu Juit 14:46!11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       pn £
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               len
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    curr_d_version =
buf[0] +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CDBVersion++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            case PEB_UPDATE:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return(status);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int ret = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ret = -1;
                                                                        case PACAU:
                                                                                                                                                                                     case ECAU:
                                                                                                                                                                                                                                                                                                case PEB:
                                                                                                                                                                                                                                                                                                                                                                                                                 case GUP:
                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       break;
                                                                                                                                                                                                                                                              break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ersion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    *************************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lro information
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This routine is called when a packet is received
The state of the s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     /* CAS Individual address */
                                                                                                                                                       TRUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              packet data
                                                                                                                                                (LogClientHandle, LogECBHandle, Ti
"ACCESS return(%081x)\n", ecb));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       and is responsible for dispatching it.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           /* Bypass key
             access.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else if(p_packet->address[0] == 0x03)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         p_packet = (IndPacket_t *)message;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      switch(p_packet->payload[0]) (
case PEB_PACKET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AccessAdd(BYTE *message) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       switch(p_packet->payload[0]) (
                                                                        CLSLReturnRcvECB(ecb);
#ifdef LOG_ECB_ACTIVITY
    FastLogMsg(LogECBHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          *message)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           packet_type = PEB_UPDATE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            II
II
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         packet_type = UNKNOWN;
                                                                                                                                                                                                                           /* LOG_ECB_ACTIVITY
return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  case PEB_UPDATE_PACKET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   packet_type = PACAU;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (p_packet->address[3]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               packet_type = UNKNOWN;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          packet_type = ECAU;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         IndPacket_t *p_packet;
int packet_type;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         packet_type = PEB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       packet_type = GUP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       lroinfo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                       AccessAdd (BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       switch(packet_type)
case UNKNOWN:
   Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    case GUP_PACKET:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                case SG_PACAU:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           case SG_ECAU:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       default:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
                                                                                                                                                                                                                               #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else
```

Thu Jul 17 14:46:11 1997 return ret;	access,c	Page 25 Thu Julit 124601 1997 access.c
****	***************************************	* Output:
DacauRes	DacauResponse(BYTE *pdata, int len, timeoutFlag)	Returns: Nothing
* Description:	tion: This is the callback routine pass in to DloScheduleRecei	**************************************
* * *	which receives the response from the modem. If a timeout hadn't occured, parse the message for the dacau info.	( int k; BYTE c;
Input:	pdata - Pointer to response me	memcpy(&DacauRequest.adapternum, SerialNumPacked, sizeof(ID));
egass *	- length c	if ( DIOSignText ( (BYTE *)&DacauRequest, sizeof (DACAUrequest_t) - 8, DacauRequest.sign) $1 = 0$ )
* *	timeoutFlag - non-zero if we timed out	for(k = 0; k < 8; k+=2)
Output:	Nothing	acauRequest.E Request.sign( quest.sign(k+
* *		) SlipSend((BYTE *)&DacauRequest, sizeof(DACAUrequest_t), 1, DLO_GETKEYS_T
**************************************	**************************************	<pre>IMEOUT); if (DloScheduleReceive(DacauResponse, 60, DACAU_RECEIVE) == 0)</pre>
if (time	if (timeoutFlag)	
·	DacauFlag = 1; UpdateFileStatus(MSG("Retry: Obtaining Encryption Keys", 258)); return;	/*************************************
) // EnterDeb if (pars	} EnterDebugger(); if (parse_dacau(pdata, len) == 0)	Description: Main access thread which handles conditional access  *********************************
-	WaitingForKeys = FALSE;	
SaveConfig(); Upd	)(); UpdateFileStatus(MSG("IDLE", 211));	in DPC.CFG, we'll call out immediately to get
else.		* Then we'll just sleep until there is a packet to handle. ** *********************************
~ ~	DacauFlag = 1; UpdateFileStatus(MSG("Retry: Obtaining Encryption Keys", 259));	. ignored . output: Nothing
/*************************************	**************************************	* Returns: * Nothing *
* Description:	cion: Initiate the reception of the encryption keys for this a	void AccessMain(void *parm)
dapter  ch  the second of the	by constructing a request, sending it to the modem, and scheduling a receive to receive the response whi hopefully contains our encryption key.	LONG sn, ccode;  LONG sn, ccode;  // ECB ecb = (0, 0, 0, 0, MSG("DRCTPC", 212));  // ChannelConfig channelCfg;  BYTE address(8);  BYTE x,  LONG removedCount;

```
Page 28
                                                                                                                            AccessAsleep = FALSE;
if (removedCount != DIORemovedCount)
                                                                                                                                                               goto RegisterWithDriver;
                                   ccode = AccessReceive (AccessMessage);
                                                                                         AccessAsleep = TRUE;
SuspendThread(DPCAccessPID);
        access.c
                                                                                                                                                                                                                                   AccessAdd(AccessMessage);
if ( DacauFlag )
GetDacau();
                                                                                                                                                                                                                                                                                                                               DIOCloseChannel (AccessChannel);
                                                                                                                                                                                  continue;
                                                     if (ccode)
                                                                                                                                                                                                                                                                                                                                                DPCAccessPID = 0;
channelCfg.CfgChannel = AccessChannel;
channelCfg.CfgNumAddresses = 1;
MACbuildAddr(SerialNum, MAC_CAS_IND, 0, (MACaddr
                                                                                                                                                                                                                                                                                                                                               pack_mac_addr(SerialNumPacked, 3, SerialNum, 6);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0, (MACaddr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ecb.ECB_Fragment[0].FragmentAddress = &channelCf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (IoctlMlid(FDBboard, &ecb, FDBControlEntry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1<del>1</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (DIOAddAddress (AccessChannel, address)
                                                                                                           * When MLID has been found, Open the conditional access channel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MACbuildAddr(SerialNum, MAC_CAS_IND,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ecb.ECB_StackID = MLID_ADD_ADDRESS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 x = SerialNumPacked(0);
SerialNumPacked(0) = SerialNumPacked(2);
SerialNumPacked(2) = x;
                                                                                                                                                                                                                                                                                                                                                                                                                                        DIOGETSN(SerialNum);
sn = atol(SerialNum);
NWsprintf(SerialNum, MSG("%061X", 213); sn);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Now lets open up the the DPC.CFG file.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          break;
 access.c
                                                                                                                                                                                                                                                                          AccessAsleep = FALSE;
                                                                                                                                                                                                                                        AccessAsleep = TRUE;
                                                                                                                                                                                                                                                                                                             if (DIOBoard != 0)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ħ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DPCAccessPID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        //
//
//
_t *)channelCfg.CfgAddxess);
                                                                                                                                                                                                                                                         delay(500);
                                                                                                                                                                                                     while (! ExitingFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             while(|ExitingFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ExitingFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return;
                                                                                                                                                                                                                                                                                                                                                                                                        &AccessChannel) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ReadConfig();
   Thu Jul 17 14:46:11 1997
                                                       parm = parm;
                                                                                                                                                                 RegisterWithDriver:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             _t *)address);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ô
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               :: 6; n
```

```
Page 2
                                                                                                                                                                                                                                                                        DIOBoard = board;
DIOControlEntry = (LONG)ControlEntryPoin
                                                                                      ecb.ECB_StackID = MLID_REGISTER_AGENT;
ecb.ECB_Fragment[0].FragmentAddress = &r
                                                                                                                                                                                                     IoctlMlid(board, &ecb, (LONG)ControlEntr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       to where to store seri
                                            void (*removeRoutine) () = DIORemove;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         successful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This routine Gets the serial number from the adapter. It is used for explicit requests of packages that are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ecb.ECB_Fragment[0].FragmentAddress = &nullRoutine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             filled out if
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DIOControlEntry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Pointer
                                                                                                                                                                                /* Call MLID */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0, MSG("DRCTPC", 506));
= 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0, MSG("DRCTPC", 108));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ecb.ECB_StackID = MLID_REGISTER_AGENT;
                                                                                                                                                                                                                                                                                                                                           return(0);
  driverio.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* Call MLID */
IoctlMlid(DIOBoard, &ecb,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DIOGETSN(char *serialNum)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>،</u> ۵
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             LONG DIOGETSN(char *serialNum)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DIOBoard = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void DIODeRegisterAgent(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ECB ecb = (0, 0, 0, void (*nullRoutine)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       serialNum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (!DIOBoard)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ECB ecb = (0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (DIOBoard)
  1. Page T. Tru Jul 17.14:46:12 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LONG ccode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Input:
                                                                                                                                    emoveRoutine;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               number
                                                                                                                                                                                                                              yPoint);
                                                                                                                                                                                                                                                                                                                        ς.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ပ္ပ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0, 0, 0, MSG("DRCTPC"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           struct DriverConfigurationStructure* config = 0;
if ((config = (struct DriverConfigurationStructure *)
0, (LONG)ControlEntryPoint))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (!CStrCmp(config->DShortName, shortName))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          == ESUCCESS)
In Page and the Page In
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for(i = 0; i < 4; i++)
NWSUngetKey(UGK_ESCAPE_KEY, UGK_NORMAL_KEY, NUTHandle);</pre>
                                                                                                                                                                                                                                                                                                                                       Invalidate the DriverIO board. Increment removed count so that other threads can detect that the driver has changed, even if DIOBoard gets filled in. The other threads can than re-register with the new driver.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Force sleeping threads to wake up so that they can detect that
the adapter has been unloaded(DIORemovedCount will be different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      * from their local copy of the last removed count). The threads * should then spin(sleep) periodically until a new adapter is * present, and then re-register with the adapter if they need to.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Porce the NWSNUT menus to exit so that DPCAGENT can go back to searching for a new adapter before allowing user to choose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          &ControlEntryPoint)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ò
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void (*ControlEntryPoint) (void)= NULL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                °()
"
                                                                 *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for(board = 0; board < NumberOfLANs; board++)
                                                                   Our header file
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (CLSLGetMLIDControlEntry(board,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ECB ecb
          driverio.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LONG DIORegisterWithAdapter(char *shortName)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (AccessAsleep)
ResumeThread(DPCAccessPID);
                                                                                                                                                                                struct DriverStatsStructure* DIOStats = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ResumeThread (DPCInetPID);
                                                                                                                                        DIORemovedCount = 0;
                                                                                                                                                             LONG DIOControlEntry = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DIOStats = 0;
DIOBoard = 0;
DIORemovedCount++;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (InetAsleep)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        board;
                                                                                                               DIOBoard = 0;
                                                                     "dpcagent.h"
        Thu Jul 17 14:46:12 1997
                                                                                                                                                                                                                              void DIORemove (void)
                                                                                                                                                                                                                                                                            .<del>...</del>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mmandMlid(board,
                                                                                                                                                                                                                                                                            int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * options.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ŧ
                                                                     #include
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ( ( 202 )
                                                                                                                 LONG
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Thu Jul 17 14:46:12 1997 driverio.c	Reflect des from the second design of the second de	L. Page 3 Tite Julia 124642 1997 driverio.c
ecb.ECB_StackID = MLID_GET_SN; ecb.ECB_Fragment[0].FragmentAddress	sss = serialNum;	* Description: * This routine fills in a pointer to the MLID stats * table.
<pre>/* Call MLID */ ccode = loctlMlid(DIOBoard, &amp;ecb,</pre>	, DIOControlEntry);	* Input: * stats ter to stats table
return(ccode);		Outpu
***********************************	*****************	* Returns:
* DIOSignText(char *textToSign, * LONG textLength, * char *signature)		***************************************
9	1 0 0	int DPCGetMLIDStats(struct DriverStatsStructure **stats)  ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) (
ins routine uses for the given text It is used for exp for sale,	the adapter to calculate a signature .licit requests of packages that are	<pre>it (:Dibboard)     return(-1);     *stats = DIOStats = (struct DriverStatsStructure *)</pre>
<pre>textToSign textLength signature</pre>	<ul> <li>string to be signed</li> <li>length of string to be signed</li> <li>string to store signature</li> </ul>	return(0);
* Output:	- filled out if successful	int DIOGetMLIDConfig(struct DriverConfigurationStructure **config)
* Returns:		<pre>if (!DIOBoard)     return(-1);</pre>
***********	/+*********************************	<pre>*config = (struct DriverConfigurationStructure *) CommandMlid(DIOBoard, 0, DIOControlEntry);</pre>
LONG DIOSignText(char *textToSign, LONG textLength, char *signature)		0);
(     LONG ccode;     LONG fragment[3];     ECB ecb = (0, 0, 0, 0, MSG("DRCTPC",	CTPC", 139)};	**************************************
( DIOBoard) return(-1);		* Description: * This routine attempts to open an adapter channel for the passed in bypass address, such as 0f 00 00 00 00.
<pre>fragment[0] = (LONG)textToSign; fragment[1] = textLength; fragment[2] = (LONG)signature;</pre>		Input: address - Bypass
ecb.ECB_StackID = MLID_SIGN_TEXT; ecb.ECB_Fragment[0].FragmentAddress	ss = fragment;	- ESR address for this channel - Language channel - Especial channel
<pre>/* Call MLID */ ccode = loctlMlid(DIOBoard, &amp;ecb,</pre>	DIOControlEntry);	•
return(ccode);		if channe
—————————————————————————————————————	化甲糖化妆金 化苯胺热化汞 智能的 有相当 最 医骨髓 医表现的 化环烷 化环烷 化白烷	*************************
		nnel(BYTE *address, int (*esr)(), LONG *channel)
<pre>* DPCGetMLIDStats(struct DriverStatsStructure **stats) *</pre>	:sStructure **stats)	ChannelConfig cfg;

Ccode;  (code;  (code;  (channel to 0. MLID will overwrite this */  channel to 0. MLID will overwrite this */  co our packet handler */  ddresses to add */  cfg.CfgAddress, 6);  D = MLID_OPEN_CHANNEL;  nnt[0].FragmentAddress = &cfg  (iid(DIOBoard, &ecb, DIOControlEntry);  ))  re channel for close channel, add addr and el = cfg.CfgChannel;  This routine closes a previously opened c  This routine closes a previously opened c  if channel)  (code, 0, 0, 0, MSG('DRCTPC', 157));  (-1);  (-1);  D = MLID_CLOSE CHANNEL;  int[0].FragmentAddress = &channel  int[0].FragmentAddress = &channel  int[0].FragmentAddress = &channel  int[0].FragmentAddress = &channel	Thu Jul 17 14:46:12 1997 driverio.c	mage 5   Thu Jul 17 (44612 1997 driverio.c
if (iDIOBoard) {     if (iDIOBoard) {         return(-1);     }      /* Initialize channel to 0. MLID will overwrite this */     cfg.cfgChannel = 0;      /* Point ESR to our packet handler */     cfg.cfgSRR = esr;      /* Number of addresses to add */     cfg.cfgSRR = esr;      /* Number of addresses = 1;      /* Address of 0 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 */     CMovB (address of 0 0 0 0 0 0 0 0 0 */     /* Store channel for close channel, add addr and *channel = cfg.cfgChannel,     /* Store channel (LONG channel)     Description:     This routine closes a previously opened coutput:     achannel     cuthur channel     cuthur channel     loutput:     achannel     if (iDIOBoard)     if (iDIOBOard)     return(-1);     if (iDIOBOard)     return(-1);     ecb.ECB_StackID = MLID_CLOSE_CHANNEL,     eccode = 10ctMlid DIOBOard, 4ecb, DIOCOUTIOLENTER,     ecthurled    eccode    eccode    eccode    eccode    eccode    eccode    ecc	ccode; (0, 0, 0, 0, MSG("DRCTPC", 142)	电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电
return(-1);  /* Initialize channel to 0. MLID will overwrite this */ cfg.CfgChannel = 0;  /* Point BSR to our packet handler */ cfg.CfgChannel = 0;  /* Point BSR to our packet handler */ cfg.CfgChannel = 0;  /* Address of 0f 00 00 00 00 00 */ CMOVB(address = 1;  /* Address of 0f 00 00 00 00 00 */ CMOVB(address = 1;  /* Call MLID **  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  if (ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  if (ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  if (ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  ccbcb.ECB_StackID = MLID_CLOSE_CHANNEL;  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);  ccode = IoctlMid(DioBoard, &ccb, DioControlEntry);		DIODeleteAddress(BYTE *address)
/* Initialize channel to 0. MLID will overwrite this */ cfg.CfgChannel = 0;  /* Point ESR to our packet handler */ cfg.CfgESR = esr;  /* Number of addresses to add */ cfg.CfgESR = esr;  /* Address of 06 00 00 00 00 00 */ CMOVB(address, cfg.CfgAddress, 6); ecb.ECB_StackID = MLID_OPEN_CHANNEL; ecb.ECB_StackID = MLID_OPEN_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &cfg /* Call MLID */ ccode = loctMild(DloBoard, &ecb, DIOControlEntry); if (ccode == 10ctMild(DloBoard, &ecb, DIOControlEntry); ccode = loctMild(DloBoard, &ecb, DIOControlEntry); if (lDIOBoard)  if ccode = loctUmild(DloBoard, &ecb, DIOControlEntry); ccode = loctUmild(DloBoard, &ecb, DIOControlEntry);	* '([-)u	Description: This routine deletes the filter address from the MLID,
/* Point ESR to our packet handler */ cfg.CfgESR = esr;  /* Number of addresses to add */ cfg.CfgNumAddresses = 1;  /* Address of 0f 00 00 00 00 0*/ CMOWG daddress, of 0; CfgAddress, 6; ecb.ECB_Fragment[0].FragmentAddress = &cfg ecb.ECB_reagment[0].FragmentAddress = &cfg  ccode = loctlMid(DIOBoard, &ecb, DIOCONTrolEntry); if (ccode == 0)  /* Call MLID */ ccode == loctlMid(DIOBoard, &ecb, DIOCONTrolEntry); if (ccode == 0)  /* Store channel for close channel, add addr and *channel = cfg.CfgChannel;  DIOCLOSeChannel(LONG channel)  DIOCLOSeChannel(LONG channel)  LONG  Ccode;  Channel  COUTPUT:  close  Output:  nothing  Returns:  if channel was closed  ECB ecb = (0, 0, 0, 0, 0, MSG("DRCTPC", 157));  if (!DIOBoard)  return(-1);  ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_Fragment(0).FragmentAddress = &channel ccode = loctlMid(DIOBoard, &ecb, DIOCONTROLEDELTY);	channel to 0. MLID will overwrite this */ = $0_i$	Input: address to del
/* Number of addresses to add */ cfg.CfgNumAddresses = 1;  /* Address of 00 00 00 00 00 */ CWovB(address, cfg.CfgAddress, 6); ecb.ECB_StackID = MITD_OPEN_CHANNEL; ecb.ECB_StackID = MITD_OPEN_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &cfg  /* Call MILD */ ccode = 1 octLM1d(DIOBoard, &ecb, DIOCONTrolEntry); if (ccode == 0)  /* Store channel for close channel, add addr and *channel = cfg.CfgChannel;  DIOCloseChannel[LONG channel]  Description:	to our packet handler esr;	Output: Nothing
/* Address of 0f 00 00 00 */ CMovB(address, cfg.CfgAddress, 6); ecb.ECB_StackID = MLID_OPEN_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &cfg  /* Call MLID */ ccode = IoctMlid(DIOBoard, &ecb, DIOControlEntry); if (ccode == 0)  /* Store channel for close channel, add addr and *channel = cfg.CfgChannel;  DIOCloseChannel (LONG channel)  Description: This routine closes a previously opened c Input: close Output:  output:  DIOCloseChannel (LONG channel)  if channel was closed  if (iDloBoard)  ECB ecb = {0, 0, 0, 0, 0, MSG('DRCTPC', 157)};  if (iDloBoard)  return(-1); ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecclose = MLID_CLOSE_CHANNEL; eccl	to add 1;	Returns:
<pre>ecb.ECB_StackID = MLID_OPEN_CHANNEL; ecb.ECB_StackID = MLID_OPEN_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &amp;cfg  / Call MLID */ ccode = loctlMild(DIOBoard, &amp;ecb, DIOControlEntry); if (ccode == 0)  / * Store channel for close channel, add addr and *channel = cfg.CfgChannel;  DIOCloseChannel(LONG channel)  Description: This routine closes a previously opened c Input: close Output: nothing  Returns:  if channel  DIOCloseChannel(LONG channel)  LONG ccode; ECB ecb = (0, 0, 0, 0, MSG('DRCTPC', 157));  if (!DIOBoard)  return(-1); ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_Stagment[0].FragmentAddress = &amp;channel ccode = IoctlMild(DIOBoard, &amp;ecb, DIOControlEntry);</pre>	0f 00 00 00 00 00 cfg.CfgAddress, 6	* • *
/* Call MLID */  ccode = IoctlMlid(DIOBoard, &ecb, DIOControlEntry);  if (ccode == 0)  /* Store channel for close channel, add addr and	11	DIODeleteAddress
/* Store channel for close channel, add addr and *channel = cfg.CfgChannel;  return(ccode);  DIOCloseChannel(LONG channel)  Description: This routine closes a previously opened c Input:  close Output:  Output:  DIOCloseChannel(LONG channel)  Exturns:  if channel was closed  ***********************************	LID */ octiMid(DIOBoard, &ecb, DiOControlEntry); == 0)	
return(ccode);  Dioclosechannel(LoNG channel)  Description: This routine closes a previously opened chan input:  close Output:  nothing  Returns:  Dioclosechannel(LoNG channel)  LONG ccode;  ECB ecb = {0, 0, 0, 0, MSG("DRCTPC", 157)};  if (!DIOBOard)  return(-1);  ecb. ECB_StackID = MLID_CLOSE_CHANNEL;  ecb. ECB_Eragment(0).FragmentAddress = &channel  ccode = loctIMid(DIOBoard, &ecb, DIOCONTROLENTY);	Store channel for close channel, add addrannel = cfg.CfgChannel;	if (!DIOBoard) return(-1);
DIOCloseChannel (LONG channel)  Description:  This routine closes a previously opened chan close  Coutput:  Coutput:  Coutput:  Output:  DiocloseChannel (LONG channel)  LONG ccode;  ECB ecb = {0, 0, 0, 0, MSG("DRCTPC", 157)};  if (!DIOBoard)  return(-1);  ecb.ECB_StackID = MLID_CLOSE_CHANNEL;  ecb.ECB_Fragment(0).FragmentAddress = &channel  ccode = IoctlMlid(DIOBoard, &ecb, DIOControlEntry);	,	channelCfg.CfgChannel = channel; channelCfg.CfgNumAddresses = 1; CMovB(address, channelCfg.CfgAddress, 6);
Description: This routine closes a previously opened Input: channel close Output: nothing Returns:  LONG ccode; ECB ecb = {0, 0, 0, 0, MSG("DRCTPC", 157)};  if (!DIOBoard) return(-1); ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &channel ccode = loctIMlid(DIOBoard, &ecb, DIOControlEntry);	**************************************	<pre>ecb.ECB_StackID = MLID_DEL_ADDRESS; ecb.ECB_Fragment(0).FragmentAddress = &amp;channelCfg ccode = loctIMid(DIOBoard, &amp;ecb, DIOControlEntry); return(ccode);</pre>
<pre>close Output:     nothing Returns:</pre>	This routine closes	
close Output: nothing Returns:  Disclosechannel(Long channel) LONG ccode; ECB ecb = {0, 0, 0, 0, 0, MSG("DR(if (!DIOBoard)) return(-1); ecb.ECB_StackID = MLID_CLOSE_CHANNecb.ECB_Fragment(0).FragmentAddrescode = loctIMlid(DIOBoard, &ecb,	DNOT   STUTE   STUTE	G DIOAddaddress(LONG channel, BYTE *address)
nothing  Returns:  if channe:  DIOCloseChannel(LONG channel)  LONG ccode;  ECB ecb = {0, 0, 0, 0, MSG("DR  if (!DIOBoard)  return(-1);  ecb.ECB_StackID = MLID_CLOSE_CHANN  ecb.ECB_Fragment(0).FragmentAddres  ccode = loctlMlid(DlOBoard, &ecb,		<pre>ChannelConfig channelCfg; LONG ccode; ECB ecb = (0, 0, 0, 0, MSG("DRCTPC", 207));</pre>
DIOCLOSeChannel (LONG channel)  LONG ccode;  ECB ecb = {0, 0, 0, 0, MSG("DR("DR("DR)")  if (!DIOBoard)  return(-1);  ecb.ECB_StackID = MLID_CLOSE_CHANN  ecb.ECB_Fragment{0};  eccode = loctlMlid(DIOBoard, &ecb,	annah.	<pre>if (!DIOBoard)     return(-1);</pre>
DIOCLOSECHANNEI (LONG channel) LONG	***************************************	channelCfg.CfgChannel = channel; channelCfg.CfgNumAddresses = 1; CMovB(address, channelCfg.CfgAddress, 8);
return(-1); ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &channel ccode = loctlMlid(DIOBoard, &ecb, DIOControlEntry);	channel) ), 0, MSG("DRCTPC",	<pre>ecb.ECB_StackID = MLID_ADDRESS; ecb.ECB_Fragment[0].FragmentAddress = &amp;channelCfg ccode = loctIMlid(DIOBoard, &amp;ecb, DIOControlEntry); return(ccode);</pre>
ecb.ECB_StackID = MLID_CLOSE_CHANNEL; ecb.ECB_Fragment[0].FragmentAddress = &channel ccode = IoctlMlid(DIOBoard, &ecb, DIOControlEntry);		
recurn(ccode);	tackID = MLID_CLOSE.CHANNEL; ragment[0].FragmentAddress = &channel octlMlid(DIOBoard, &ecb, DIOControlEntry); ode);	<pre>G DIOAddGroupAddress(LONG channel, BYTE *address, BYTE *groupAddress)</pre>

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driverio.c

driverio.c

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```
ecb.ECB_Fragment(0).FragmentAddress = returnTCBRoutine;
                                                                                                                                                                                                                                                                                                    DIOObtainReturnTCB(void (**returnTCBRoutine)(TCB *))
                                                                                                                  ecb.ECB_StackID = MLID_REGISTER_SEND_ROUTINE;
ecb.ECB_Fragment[0].FragmentAddress = &sendRoutine;
0, MSG("DRCTPC", 481));
                                                                                                                                                                                                                                                                                                                                                  0, MSG("DRCTPC", 147));
                                                                                                                                                                                                           loctlMlid(DIOBoard, &ecb, DIOControlEntry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IoctlMlid(DIOBoard, &ecb, DIOControlEntry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                = MLID_RETURN_TCB_ROUTINE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DIOBoard,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (CLSLGetStackIDFromName("\002IP", &id))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (CLSLGetProtocolControlEntry(id,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (GetProtocolStringForBoard(ctl,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          s = strpbrk(buf, "0123456789");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG (*ctl)(LONG board, ...);
    ECB ecb = {0, 0, 0, 0,
                                                                                                                                                                                                                                                                                                                                                  ECB ecb = (0, 0, 0, 0, 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int DPCGetIPAddress(LONG* 1p)
                                               if (!DIOControlEntry)
                                                                                                                                                                                                                                                                                                                                                                                             if (!DIOControlEntry)
                                                                          return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                      return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *ip = inet_addr(s);
if (*ip == (LONG)(-1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ecb.ECB_StackID
                                                                                                                                                                                      /* Call MLID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* Call MLID
                                                                                                                                                                                                                                    return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return (0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              char* s = buf;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char buf[80];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG 1d;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (!s)
                                                                                                                                                                                                                                                                                                      int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ((BICDD_CHANNEL_CONFIG FAR *)&channel_config))!=CAS_OK)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8);
                                                                                                                                                                                                                                                                                                      ecb.ECB_Fragment[0].FragmentAddress = &channelCfg;
ccode = loctlMlid(DlOBoard, &ecb, DlOControlEntry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CMovB(&MagicKey, channelCfg.CfgElementKey,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ecb.ECB_StackID = MLID_ADD_ADRESS;
ecb.ECB_Fragment[0].FragmentAddress = &channelCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ret = IoctiMlid(DIOBoard, &ecb, DIOControlEntry);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   reverse_key(&key);
CMovB(key, channelCfg.CfgGroupKey, 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                         int DIOAddHIAddr(unsigned char channel, BYTE *hiAddr)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   channelCfg.CfgChannel = FDBChannel;
channelCfg.CfgESR = FDB_ESR;
channelCfg.CfgNumAddresses = 1;
CMovB(&addr, channelCfg.CfgAddress,
CMovB(&pacau->g_key, key, 8);
                                                                                                                                                                                                                                    CMovB(&MagicKey, channelCfg.CfgElementKey,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              channelCfg.CfgESR = (int (*)())0xffffffff;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DIORegisterSend(int (*sendRoutine)(TCB *))
                                                                                                                                             8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CMovB(hiAddr, channelCfg.CfgAddress, 8);
                                                                                                                                                                                                               CMovB(key, channelCfg.CfgGroupKey, 8);
                                                                                                                                        CMovB(address, channelCfg.CfgAddress,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CMovB(&addr, node->file_address, 6);
                                                                                                                                                                                                                                                                                 ecb.ECB_StackID = MLID_ADD_ADDRESS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CMovB(&key, channelCfg.CfgGroupKey, 8);
CMovB(&key, channelCfg.CfgElementKey, 8);
                                                                                               channelCfg.CfgChannel = channel;
                                                                                                                      channelCfg.CfgNumAddresses = 1;
                                                                                                                                                                   CMovB(groupAddress, key, 8);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* Some strange things ... */
reverse_key((BYTE *)&key);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                channelCfg.CfgChannel = channel;
channelCfg.CfgNumAddresses = 1;
                                                                                                                                                                                      reverse_key((BYTE*)&key);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if((ret = WBicddAddAddress
                                                   return (-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hi_id.i[i] = 0x00;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             make_hi_key(&key);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for(i = 0; i < 3; i++)
                                                                                                                                                                                                                                                                                                                                                    return (ccode);
                               if (|DIOBoard)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (!DIOBoard)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chunk key;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CMovB (&key,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ID hi_id;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int
(
```

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Page 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lseek(handle, 0, SEEK_SET);
if (write(handle, &DloCfg, sizeof(DloCfg)) != sizeof(Dlo
                                                                                                                            if ( read(handle, &DloCfg, sizeof(DloCfg)) != sizeof(DloCfg))
                                                                                                                                                                                                                                                                                                                                                                                = 0, timeout = &DloCfg.wait_timeout_2; i < 8; i++, timeout++)
                                                                                                                                                                                                                                                                      if (DloCfg.wait_timeout_1 < 2 || DloCfg.wait_timeout_1 > 60)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DloCfg.ip_address = htonl(DloCfg.ip_address);
DloCfg.gateway_address = htonl(DloCfg.gateway_address);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             handle = open(MSG("SYS:DIRECPC\\DB\\MODEM.CPG", 194),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lseek(handle, 0, SEEK_SET);
write(handle, &DloCfg, sizeof(DloCfg));
                                                                                                                                                                                                                                                                                                                                                                                                                if (*timeout < 2 || *timeout > 60)
                                                                             -1 unable to open or create file-2 unable to update file
         license.c
                                                                                                                                                                                                                                                                                                                          Dlocfg.wait_timeout_1 = 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               S_IWRITE | S_IREAD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ConfigSanityCheck(handle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               O_CREAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                       changeFlag++;
*timeout = 5;
                                                                                                                                                                  void ConfigSanityCheck(int handle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      void DPCUpdateConfigFile(void) (
                                                        0 if successful
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  close (handle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            O_RDWR
                                                                                                                                                                                                                                                                                                             changeFlag++;
                                                                                                                                                                                                    int changeFlag = 0;
int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ccode = -11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ccode = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (handle != -1) {
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int DPCUpdateConfig(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (changeFlag)
                                                                                                                                                                                                                                      LONG *timeout;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(ccode);
Page 1 Trid Jin 17 14:46:12 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int handle;
                                           Returns:
                                                                                                                                                                                                                                                                                                                                                                                 for (i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cfg))
                                                                                                                                                                                                                                                                                                                                                              packet_lifetime - Max time to keep da
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This routine opens \DIRECPPC\DB\MODEM.CFG and updates our global
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    versio
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (because its smaller), read in what you can and write out a new
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  its an older
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  wait_timeout_1..wait_timeout_9
 Ē
Man Anna Man
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              / auto_login
/ wait_for_1..wait_for_9
/ send_1..send_9
/ out_protocol
                                                                                                                                                                                                                                                                                                                          pdeliv_inactivity_timer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pdeliv_baud_index(2400)
async_buffer_size(8K)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tinet_baud_index(19200)
                                                                                                                                                                                                                                                                                                          tinet_inactivity_timer
                                                                                                                                                                                                  21, // ip_address
66, // gateway_address
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   obsolete (was tunnel)
                                                                                                                                                                                                                                                                                                                                                                                                  call_setup_timeout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 or if
                                                                                                                                                                                                                                                                      pdeliv_phone_num
                                                                                                                                                                                                                                                      tinet_phone_num
                                                                                                                                                                                                                                                                                        dialout_prefix
                                                                                                                                                                                                                                                                                                                                                                                                                                     disconnect_str
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          max_db_entries
 MSG("CONNECT", 192), // connect_str
MSG("ATELQOVIX4&C1&D2 S7=60 S11=55", 193), // init_str
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             net_interface
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ), // add_license
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ppp_password
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           base_license
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ppp_login .
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 file doesn't exist,
                                                                                                                                                                                                                                                                                                                                              modem_type
                                                                                                                                                                                                                                                                                                                                                                                                                                                       escape_str
                                                                                                                                                                                                                                                                                                                                                                                                                    hangup_str
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ppp_accm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               net_addr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ppp_mru
            license.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              : :

    (198 << 24)</td>
    (77 << 16)</td>
    (117 << 8)</td>

    (198 << 24)</td>
    (77 << 16)</td>
    (117 << 8)</td>

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   If the
                                                                                                                                                                                                                                                     MSG("ATDT1-800-332-8071", 100),
MSG("ATDT1-800-825-3954", 187),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DPCUpdateConfig(void)
                                                                                                                              int PackageDelivery = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    structures.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                'n
                                                                                                                                                                                                                                                                                                                                                                                                                                  MSG("NO CARRIER", 190),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    'n
                                                                                                            LONG DPCMaxConnections
                                        #include "dpcagent.h"
         Thu Jul 17 14:46:12 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1,"\0\0\0\0\0\0",
                                                                                                                                                                Dlocfg_t Dlocfg = (
                                                                                                                                                                                                                                                                                                                                                                                                                MSG("ATH0", 189),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Description:
                                                            #include <string.h>
                                                                          #include <stdlib.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         * EXPORTED FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                    MSG("+++", 191),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ญ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ι,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , 00000000.
                                                                                                                                                                                                                                                                                                                                                                                 ta in buffer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              OUT_SLIP,
TRUE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ď,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1024 * 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FALSE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1024,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1400,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          one.
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"\r\nDPCN: deleted duplicate license number: %8.8s\r\n",
                                                        ESUCCESS)
                                                                                                                                                                                                                                                                     "\r\nDPCN: deactivated old serial number: %8.8s\r\n",
                   memcpy(serial, DloCfg.add_license[i], sizeof(serial));
                                                          11
12
                                                                                                                   memcpy(sum, DloCfg.base_license, 2 * sizeof(LONG));
                                                      8
                                                                                                                                                                                                                                                                                                                                                                                                                                           sizeof(LONG));
                                                        "Helius, Inc.",
license.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        users = UserCount(DloCfg.base_license);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ocfg.add_license(j);
                                                                                                                                                                                                                          if (atol(DloCfg.base_license) < 02) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (DloCfg.add_license[i][0] == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /* check for duplicate license */
                                                                                                                                                                                                                                                                                                                                                                                                                                         memcpy(sum, DloCfg.base_license, 2
if (parity(sum[0]) == 0) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (parity(sum[1]) == 0) (
    SerialWarn(DloCfg.base_license);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (parity(sum[0]) == 0) (
SerialWarn(DloCfg.base_license)
                                                      (strncmp(DloCfg.base_license, DPCMaxConnections = 108;
                                                                                                                                                                                                           /* check for old license info */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* now handle additive licenses
                                                                                                                                                                                                                                                                                           DloCfg.base_license);
ConsolePrintf(warnbuf);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ConsolePrintf(warnbuf);
                                                                                                                                                                                                                                                                                                                                                                                                                        /* handle base license first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (DloCfg.base_license[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for (i = 0; i < 9; ++i) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     goto nextLicense;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sprintf(warnbuf
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RingTheBell();
                                                                                                   PackageDelivery ≈
LONG serial[2];
                                                                                                                                                                                                                                                    sprintf(warnbuf,
                                                                                                                                                                                                                                                                                                                                      RingTheBell();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        continue;
                                                                                                                                                                                                                                                                                                                                                             return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pd = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int j;
                                                                                                                                                                                                                                                                                                                                                                                                    #define SerialWarn(s) sprintf(warnbuf, "\r\nDPCN: detected a bad serial number:
%8.8s\r\n", (char*)(s)), ConsolePrintf(warnbuf), RingTheBell()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      static inline unsigned long find_and_clear_low_bit(unsigned long* val)
                                                                                Dlocfg.ip_address = ntohl(Dlocfg.ip_address);
Dlocfg.gateway_address = ntohl(Dlocfg.gateway_address);
handle = open(MSG("SYS:DIRECPC\\DB\\MODEM.CFG", 335);
                                                                                                                                                                                                                                                                                           DloCfg.ip_address = htonl(DloCfg.ip_address);
DloCfg.gateway_address = htonl(DloCfg.gateway_address);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for (shift = 16; shift >= 0; shift -= 4) {
    serial |= (*s - (*s >= 'A') ? 56 : 0x30)) << shift;</pre>
                                                                                                                                                                                                                                write(handle, &DloCfg, sizeof(DloCfg));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              for (i = 0; find_and_clear_low_bit(&serial); ++i)
 license.c
                                                                                                                                                                   S_IWRITE | S_IREAD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       O_CREAT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       static inline int parity(LONG serial)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             int UserCount(BYTE* s)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return 5 * (((serial & 0x00002)
((serial & 0x20000)
((serial & 0x02000)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ((serial & 0x00040)
                                                                                                                                                                                                                                                         close(handle);
                                                                                                                                              O_RDWR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             unsigned long low = "val;
                                                                                                                                                                                         if (handle != -1)
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return (*val ^ low);
   Thu Jul 17 14:46:12 1997
                                        int handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  *val &= low - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return (i & 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (low == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               static inline
LONG serial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int shift;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 s += 3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int 11
```

users += UserCount(DloCfg.add\_license(i]);

sum[0] += serial[0]; += serial[1];

if (Dlocfg.add\_license[i][2] == '\*')

SerialWarn(DloCfg.add\_license(i));

return;

if (parity(serial[1]) == 1) (

if (parity(serial[0]) == 1) {
 SerialWarn(DloCfg.add\_license[i]);

void DPCSetMaxConnections(LONG\* sum)

char warnbuf[120];

int pd = 0;

int users;

/\* re-read modem.cfg file

= DloCfg.ip\_address; Dlocfg.ip\_address = i;

DPCUpdateConfig();

sum[0] = sum[1] = (-1);

return;

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license.c DPCMaxConnections = users \* 4;
PackageDelivery = pd; Thu Jul 17 14:46:12 1997

pd = 1;

nextuicense:
;

```
Page 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   \mathbf{s}_{1}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    $02× $02
                                                                                                                                                                                                                                                                                                                                                                                                                                             Ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ModemInitString[] = MSG("ATE1Q0V1X4&C1&D2&K0&H0&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ModemInitString[] = MSG("ATE1Q0V1X4&C1&D2 S7=60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ModemInitString[] = "ATE1Q0V1X4&C1&D2&K0 S7=60
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ModemInitString[] = "ATE1QOV1X4&C1&D2\G S7=60
                                                                                                                                                                                                                                                                                                                                                         ModemInitString[] = MSG("ATH0Q0V1X4S0", 72);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             void HexAsciiDump(const unsigned char* buffer, unsigned int len)
                                                                                                                                                   ;
0
#
                                                                                                                                                     int len, int timeoutFlag)
                                                                                                                                                                                                                                                                                                                                                                                          * Digitan DS144FVM, Multitech Auto Reliable and Practical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  * Intel 144e Faxmodem and Motorola UDS V.3225 * Default Init String
                                                                                                   Variables used by DloScheduleReceive()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 * Hayes-Compatible Modem Default Init String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static void DioStopPacketLifeTimer( void );
static void DioStartPacketLifeTimer( void );
   dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void SendAIOData(BYTE *data, LONG length);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  static void DioStartTimer (LONG ticks ); //void DioStopTimer (void );
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           static void WriteCommXmitBuffer( void );
                                                                                                                                                                                                                                                                                                                                                                                                           * Peripherals V.34 Default Init String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          static void StateMachine (int event);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       * U.S. Robotics Default Init String
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      buffer[0],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       buffer[1],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* internal function prototypes */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     x $02x $02x $02x $02x $02x $02x
                                                                                                                                                   void (*DloCallBack) (BYTE *pdata,
                                                                                                                                                                                                                                                                                                      /*
* RS232.NLM Default Init String
                                                                                                                                                                                                  BYTE DIOCALIBACKBuffer (4000);
int DloCallBackIndex = 0;
int DloCallBackStarted = 0;
int DloCallBackScape = 0;
int DloCallBackType = 0;
                                MSG("NO ANSWER", 99
                                                                                                                                                                   int DloCallBackTimeout = 0;
int DloCallBackWait = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char display[80];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     while (len >= 16)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           void InitializeAIO(void);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IO S7=60 S11=55", 100);
 Page:1 Thu:Jul-17:3446411 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  S11=55", 156);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                .1=55";
                                                                                                                                                                                                                                                                                                                                                                                                                                               //BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       //BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         //BYTE
                                                                                                                                                                                                                                                                                                                                                         //BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    /BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .=55";
                                                                                                                 *
                                                                                                                                     MSG("A..Za..z0..9 -,'~!@#$$^&*()_+=[](}|;:'.<>>\\\\"",
He Hell then then here here
                                                                                                                                                                                                                                                                                                                                        2 E 4
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                                                                                                                                                                                                                                                                                                            * * * * *
                                                      file
                                                                                                                                                                                                                                                                                                                                                                                               * * * *
                                                      Our header
                                                                                                                                                                                                                                                                                                                                                                                               w ~ w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1(0) =
                                                                                                                                                                                                                                                                                                                                                                                             * * * *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DloCommandBuffer[DLOCMDBUFSIZE];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DloPMaxBufferSize = DLOBUFSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DloIMaxBufferSize * DLOBUFSIZE;
DloIXmitBuffer[DLOBUFSIZE];
                                                                                                                                                                        #define dial_chars printables
#define modem_control_chars printables
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DloPinactivityTimer = 10 * 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      char *DloCompareString[DLOENUM]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ConnectBaudStr[DLOCMDBUFSIZE]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloConn = DLO_CONN_IDLE;
DloNextConn = DLO_CONN_IDLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DloPXmitBuffer[DLOBUFSIZE];
                                                      *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MSG(*OK", 219),
MSG(*BUSY", 220),
MSG(*NO DIAL TONE", 221),
MSG(*RING", 222),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DloRcvBuffer[DLOBUFSIZE];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DloIInactivityTimer = 60
                                                                                                                                                                                                                                                                          static BYTE AIOBaudRateDefines[]
                                                                                                                                                                                                                                         AIOWriteBufferSize = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloPacketLifeTimer = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Dlocfg.disconnect_str,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DloLastKnownTickCount;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloState = DLOS_IDLE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DloCommandIndex = 0
                                                                                                                                                                                                                           AIOPortHandle = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Dlocfg.connect_str
                                                                                                                                                                                                                                                            AIOGlobalPort = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DloPXmitCount = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DloIXmitCount = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  loReadIndex = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DloRcvCount = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DloRcvIndex = 0;
                                                                                       #define USE_AIO_DEADMAN #define TRACE_STATE 0
                                                                                                                                         static char* printables
                                                                                                                                                                                                                                                                                                                                                                                                                                                  AIO_BAUD_115200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DloLastDCD = 0;
                                                                                                                                                                                                                                                                                                                          AIO_BAUD_4800,
AIO_BAUD_4800,
AIO_BAUD_7200,
AIO_BAUD_9600,
                                                                                                                                                                                                                                                                                                                                                                                                                AIO_BAUD_38400
                                                                                                                                                                                                                                                                                                                                                                                                                                 AIO_BAUD_57600
                                                                                                                                                                                                                                                                                                                                                                                                AIO_BAUD_19200
                                                                                                                                                                                                                                                                                                              AIO_BAUD_2400
                                                      #include <dpcagent.h>
    Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DloTimer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          static
                                                                                                                                                                                                                                         LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LONG
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LONG
BYTE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LONG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         char
                                                                                                                                                                                                                             int
                                                                                                                                                                                                                                                             int
```

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Page 4
                                                                                                                                                                                                                                                                                         Ω
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (DloConn == DLO_CONN_PACKAGE)
UpdateModemStr(MSG("Modem Status: Disconnecting from Pac
                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWsprintf(connectStr, MSG("Modem Status: Connect
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                UpdateModemStr(MSG("Modem Status: Connected to I
\n", 184));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             UpdateModemStr(MSG("Modem Status: Disconnecting from Int
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AIOGEtPortStatus (AIOPortHandle, &writeCount, NULL, NULL, NULL, NULL, NULL
                                                                                                                                                                                                                                                                if (DloConn == DLO_CONN_PACKAGE)
UpdateModemStr(MSG("Modem Status: Connected to Package
                                                            UpdateModemStr(MSG("Modem Status: Initializing Modem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AIOFlushBuffers(AIOPortHandle, AIO_FLUSH_READ_BUFFER);
                                                                                                                                         \n", 236));
else if (DloState == DLOS_REDL)
UpdateModemStr(MSG("Modem Status: Redialing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               UpdateModemStr(connectStr);
                                                                                                                      UpdateModemStr(MSG("Modem Status: Dialing
                                                                                                                                                                                                                                                                                                                                                                                                                BYTE connectStr[80];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          to Internet at 8.24s \n", 473), Connect BaudStr);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return(AIOWriteBufferSize - writeCount);
                                                                                                                                                                                                                                                                                                                                                                    if (ConnectBaudStr[0])
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;
6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  return(DloPXmitCount == 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (Dloconn == DLO_CONN_PACKAGE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            return(DloIXmitCount ≈≈
                                                                               \n", 240));
else if (DloState == DLOS_DIAL)
                                     else if (DloState == DLOS_INIT)
                                                                                                                                                                                                      \n*, 235));
else if (DloState == DLOS_CONN)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                n", 475));
                                                                                                                                                                                                                                                                                                        \n", 241));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int DloGetWriteBufferSpace (void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (!AIOWriteBufferSize)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return(2048);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LONG writeCount = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      int DloAndCommEmpty (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          void DloFlushReceive (void)
                                                                                                                                                                                                                                                                                                                                 else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else
kage Delivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nternet
                                                                                                                                                                                                                                                                                                            elivery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ernet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  :
:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            eq
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the basic theory here is to build the buffer in place and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            = isprint(buffer[n]) ? buffer[
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           - 2);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWsprintf(d, MSG("%02x ", 483), buffer[n]);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        buffer[14] : '.',
buffer[15] : '.');
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           æ
*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           - (16 / 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     buffer[13] :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            buffer[11] ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sprint(buffer[10]) ? buffer[10]
sprint(buffer[11]) ? buffer[11]
sprint(buffer[12]) ? buffer[12]
                                                                                                                                                                                                                                                                                                                                                                    buffer[2]
buffer[3]
buffer[4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       .sprint(buffer[7]) ? buffer[7]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           .sprint(buffer[8]) ? buffer[8]
                                                                                                                                                                                                                                                                                                                                                                                                                               buffer[5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                       buffer[6]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  .sprint(buffer[9]) ? buffer[9]
                                                                                                                                                                                                                                                                                                                                                   buffer[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (DloState == DLOS_IDLE)
UpdateModemStr(MSG("Modem Status: IDLE
\n", 201);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         display((16 * 3 + 2) + len] = 0;
memset(d, '', (16 - len) * 3 + 2);
d = display + (16 / 2 * 3);
memmove(d + 2, d, sizeof(display) -
d(0) = d(1) = '';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           d += 3;
display[(16 * 3 + 2) + n]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sprint(buffer[14]) ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sprint(buffer[15]) ?
                                                                                                                                                                                                                                                                                                                                                                                                                                                      sprint(buffer[6]) ?
-dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sprint(buffer[13])
                                                                                                                                                                                                                                                                                                                                                                                                                                 (sprint(buffer[5])
                                                                                                                                                                                                                                                                                                                                                                                                            sprint (buffer[4])
                                                                                                                                                                                                                                                                                                                             (sprint(buffer[0])
                                                                                                                                                                                                                                                                                                                                                                                         (sprint (buffer[3])
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   register char* d = display;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            d = display + (16 + 3) + 4
                                                                                                                                                                                                                                                                                                                                                   .sprint(buffer[1]
                                                                                                                                                                                                                                                                                                                                                                        sprint (buffer[2]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                memmove(d + 2, d, 9);
d[0] = d[1] = ';
puts(display);
                                                                                                                   buffer[6],
buffer[7],
buffer[8],
buffer[9],
buffer[11],
buffer[12],
                                                                                                  buffer[5],
                                                                                                                                                                                                                                                                                     buffer[14]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  unsigned int n = 0;
                                                                                                                                                                                                                                                                                                          buffer [15]
                                                                               buffer[4]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              while (n < len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    void DloUpdateModemStr( void )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  buffer += 16;
len -= 16;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            /* the basic
n insert the extra spaces */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         /u++
Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (len)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ·`
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Page 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSAppendToMenuField (mfctll, InxMSG("2400", 315), 0, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("3600", 316), 1, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("4800", 317), 2, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("7200", 318), 3, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("19200", 319), 4, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("19200", 320), 5, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("18400", 321), 6, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("15200", 323), 7, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("15200", 323), 8, NUTHandle);
NWSAppendToMenuField (mfctll, InxMSG("15200", 323), 8, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ", 313), NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              40, BaudRateHand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    : ", 311), NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendStringField(i, 28, 30, NORMAL_FIELD, tmpDloCfg.pdeliv_phone_num
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendCommentField(i, 2, MSG("Package Inactivity(sec) : ", 324), NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSAppendIntegerField(i, 28, NORMAL_FIELD, (int *)&tmpDloCfg.pdeliv_inac
tivity_timer, 1, 65535, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendIntegerField(i, 28, NORMAL_FIELD, (int *)&tmpDloCfg.max_db_entr
tes, 1, 65535, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      : ", 327), NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSEditPortalForm(InxMSG("Package Delivery Configuration Editor",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = NWSInitMenuField(InxMSG("Baud Rate", 314), 10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSAppendCommentField(i, 2, MSG("Max Database Entries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSGetListSortFunction(NUTHandle, &oldSortFunction);
NWSSetListSortFunction(NUTHandle, NoSortHandler);
                                                                                                                                                                                                                                                                                                                                 *, NUTINfo *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          dial_chars, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendCommentField(i, 2, MSG("Package Phone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             baud = tmpDloCfg.pdeliv_baud_index;
NWSAppendCommentField(i, '2', MSG("Package Baud
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sizeof(DloCfg_t));
                                                                                                                                                                                                                                                                                                          int i,
void (*oldSortFunction)(LIST *, LIST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CMovB(&DloCfg, &tmpDloCfg,
                                                                                                                                                                                                                                                                                                                                                                                        tmpDloCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSInitForm(NUTHandle);
                                                                                                                                                                                                                                                PDConfiguration(void)
                                                                                                                                                                                                                                                                                                                                                                                     DloCfg_t tmfctl1;
                                                                                                           handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12, 40, /* center line, column i, 76,
                                                                                                                                                                                                                                                                                                                                                                 save;
  Pages Thundul Antacked 1 1997
                                                       head = head;
                                                                                tail = tail;
                                                                                                                                                                                                                                                                                                                                                                                                                                            int baud;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NUTHandle);
                                                                                                                                                                   return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10 = T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     save
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              i, + ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    andle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             andle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       andle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  andle);
                                                                                                                                                                                                                                                   void
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ler,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DloIInactivityTimer = DloCfg.tinet_inactivity_timer * 19
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* Package waiting for internet. Cause it to timeout quickly */
                                                                                                                                                                                                                                                                                                                                                                                                                                            DloPinactivityTimer = DloCfg.pdeliv_inactivity_timer
  ä
  static void NoSortHandler(LIST *head, LIST *tail, NUTInfo *handle)
/* Assume package delivery connection first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                == DloConn)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DloPinactivityTimer = timeout * 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else if (timeout == DLO_GETKEYS_TIMEOUT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DloPinactivityTimer = 30 * 19;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else if (timeout == DLO_INET_TIMEOUT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloNextConn = DLO_CONN_INET;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BaudRateHandler(int option, void *parameter)
                                                                                                                                                                                                                                                                                                                                                                                        (timeout == DLO_PACKAGE_TIMEOUT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DloPinactivityTimer = 2 *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (DloState == DLOS_CONN && DloNextConn
                                                                                                                                                                                                                                                                                                                         DloNextConn = DLO_CONN_PACKAGE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DloNextConn = DLO_CONN_IDLE;
StateMachine(DLOE_SEND);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloNextConn = DLO_CONN_IDLE;
            dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (DloConn == DLO_CONN_INET)
                                                                                                                                                                                                                                              if (DloNextConn == DLO_CONN_IDLE)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (DIOE SEND)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DloNextConn;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else if (timeout > 2)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DloConn == DLO_CONN_IDLE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloStartTimer(19);
                                                                                                                                                                                            void DloStartConn(int timeout)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       parameter = parameter;
return option;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    StateMachine
                                                    DloRcvCount = 0;
DloRcvIndex = 0;
DloReadIndex = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DloConn =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  else
          Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ĮĘ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               # _
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Thu Jul	dlo.c	That Jul	1 1997
/* for:	"NO_HELP, /* Control flags, help message */ /e Changes?*, 328), /* Confirm message, hand	/* for le */	form height, width */ F_NO_HELP, /* Control flags, help message */ InxMSG("Save Changes?", 511),  NUTHandle);
	NWSSetListSortFunction(NVTHandle, oldSortFunction); NWSDestroyForm(NVTHandle);	::	
		===	CMovB(tmpDloCfg->ppp_login, DloCfg.ppp_login, (30*2)+4+4 ); DPCUpdateConfigFile(); }
	<pre>tmpDloCfg.pdeliv_baud_index = baud; CMovB(&amp;tmpDloCfg, &amp;DloCfg, sizeof(DloCfg_t));</pre>		NWSPoplist(NUTHandle); return K_SELECT;
	DPCUpdateConfigFile();	~	
LONG	ModifyPPPConfig(FIELD *fp, int key, int *changed, NUTInfo *handle)	LONG (	ModifyNetConfig(FIELD* fp, int key, int* changed, NUTInfo* handle)
	int i; Dlocfg_t *tmpDlocfg; Long save;		<pre>int 1; Dlocfg_t* tmpDlocfg = (Dlocfg_t*)fp-&gt;customData; LONG interface; char hu_addr[18]; int save.</pre>
	key = key; changed = changed; handle = handle;		key = key; /* not used */ changed = changed; /* not used */ hereals = hereals. /* not used */
<del></del>	tmpDloCfg = (DloCfg_t *)fp->customData;		מאפים איניים
	<pre>if (NWSPushList(NUTHandle) == 0)     return K.SELECT;</pre>		<pre>if (NWSPUSALIST(NUTHANOLe) == 0) return K_SELECT;</pre>
			NWSInitForm(NUTHandle);
	i 10 0;	recry:	1 = 0;
andle);	<pre>NWSAppendCommentField(i, 2, MSG("Authentication User Name: ", 516), NUTH NWSAppendStringField(i, 28, 30, NORMAL_FIELD, tmpDloCfg-&gt;ppp_login, Drintahles, F NO HELP, NITHANGLe);</pre>		<pre>interface = tmpDloCfg-&gt;net_interface; NWSAppendCommentField(1, 2, "interface: ", NUTHandle); NWSAppendUnsignedIntegerField(1, 35, NORMAL_FIELD, Einterface, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0</pre>
			F_NO_HELP, NUTHandle);
andle).	NWSAppendCommentField(i, 2, MSG("Authentication Password : ", 578), NUTH		NWSAppendCommentField(i, 2, "Router Mac Address: ", NUTHandle);
5	NWSAppendStringField(i, 28, 30, NORMAL_FIELD, tmpDloCfg->ppp_password, printables, F_NO_HELP, NUTHandle);		ם מסים
	i+=2; NWSAppendCommentField(i, 2, MSG("Maximum Receive Unit : ", 579), NUTH		tmpDloCfg-ynet_addr(4), tmpDloCfg-ynet_addr(4), tmpDloCfg-ynet_addr(5),
4, 1638	ILE); NWSAppendIntegerField(i, 28, NORMAL_FIELD, (int *)&tmpDloCfg->ppp_mru, 6 16384, F_NO_HELP, NUTHandle);		NWSAppendStringField(1, 35, 17, NORMAL_FIELD,
; i	i++; NWSAppendCommentField(i, 2, MSG("Asynch. Control Char Map: 0x", 580), NU		F_NO_HELP, NUTHandle);
THandle); N Xfffffff	WSAppendHexField(i, 30, NORMAL_FIELD, (int *)&tmpDloCfg->ppp_accm, 0, 0, 0, F_NO_HELP, NUTHandle);	, (6	nfiguration Edi
/* cent	<pre>i++; save = NWSEditPortalForm(InxMSG("PPP Configuration Editor", 510), 12, 40, /* center line, column */</pre>		12, 40, /* center line & column */ i, 78, /* form height & width */ F_NOVERIFY, F_NO_HELP, NULL, NUTL,
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Page 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSAppendCommentField(i, 40, MSG("Wait Timeout 1: ", 599), NUTHandle);
NWSAppendIntegerField(i, 56, NORMAL_FIELD, (int *)&tmpDloCfg->walt_timeo
60, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSAppendCommentField(i, 2, MSG("Wait3: ", 524), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDlocfg->wait_for_3,
printables, F_NO_HELP, NUTHandle);
NWSAppendCommentField(i, 40, MSG("Wait Timeout 3: ", 601), NUTHandle);
NWSAppendIntegerField(i, 56, NORMAL_FIELD, (int *)&tmpDlocfg->wait_timeo.60, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NWSAppendCommentField(i, 2, MSG("Wait1: ", 581), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->wait_for_1,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendCommentField(1, 2, MSG("Send1: ", 518), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_1,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSAppendCommentField(1, 2, MSG("Send2: ", 522), NUTHandle);
NWSAppendStringField(1, 9, 30, NORMAL_FIELD, tmpDloCfg->send_2,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWSAppendCommentField(i, 2, MSG("Send3: ", 526), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_3,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSAppendCommentField(i, 2, MSG("Send4: ", 530), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_4,
                                                                                                                                                                                                         :mpDloCfg = (DloCfg_t *)fp->customData;
                                                                                                                                                                                                                                                       111
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            60, F_NO_HELP, NUTHandle);
                               *tmpDloCfg;
                                                                                                                                                                                                                                                     if (NWSPushList(NUTHandle)
                                                                                                                                                                                                                                                                              return K_SELECT;
                                                                                                                                                                                                                                                                                                                        NWSInitForm(NUTHandle);
                                                                                                                                       changed = changed;
                                                                                                                                                            handle = handle;
LONG save;
                                                                                                                key = key;
                                             Dlocfg_t
                                                                                                                                                                                                                                                                                                                                                                    i = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ut_2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InxMSG("Could not retrieve Interface Configurat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           InxMSG("Interface does not support \"Raw Send\"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    as the Interface", 685))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InxMSG("Interface does not support ETHERNET_II
                                                                                                                                                                                                                                                                                                                                           InxMSG("Format error in Mac Address", 680));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ModifyLoginScript(FIRLD *fp, int key, int *changed, NUTInfo *handle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CommandMlid(interface, 0, (LONG)ControlEntryPoint);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InxMSG("Interface not found", 681));
                                                                                                                                                                                                                                                                                                                                                                                                                                  tmpDloCfg->net_addr[i] = (BYTE)net_addr[i];
                                                                                                                ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              &ControlEntryPoint))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     *
                                                                                                                                   if (sscanf(hw_addr, "%2x-%2x-%2x-%2x-%2x",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 dvrCfg = (struct DriverConfigurationStructure
                                                                                     void (*ControlEntryPoint) (void) = 0;
struct DriverConfigurationStructure* dvrCfg
  į.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DPCName))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InxMSG("Do not use DPC
                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CLSLGetMLIDControlEntry(interface,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           = interface;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if ((dvrCfg->DModeFlags & (1 << 6))
{</pre>
                                                                                                                                                                                                                                                                                                                    NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSAlert(12, 40, NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUTHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (!CStrCmp(dvrCfg->DShortName,
                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                        &net_addr[5]) !=
dlo,c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              )
if (dvrcfg->DMediaID != 2)
(
                                                                                                                                                                                                                          &net_addr[3],
&net_addr[4],
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSAlert (12, 40,
                                                                                                                                                                                                     &net_addr[2],
                                                                                                                                                                                                                                                                                                                      40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSAlert(12, 40,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tmpDloCfg->net_interface
                                                                                                                                                     &net_addr[0]
                                                                                                                                                                                                                                                                                                                                                                                                         for (i = 0, i < 6, ++i)
                                                                                                                                                                                knet_addr[1]
                                                                                                                                                                                                                                                                                                                      NWSAlert(12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSAlert (12,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSAlert (12,
                                                                                                                                                                                                                                                                                                                                                                 goto retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       goto retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       goto retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  goto retry;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSDestroyForm(NUTHandle);
                                                                  LONG net_addr[6];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSPopList (NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               goto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             goto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (!dvrcfg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return K_SELECT
  Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                     44
71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    682));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            frames", 684));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          int i;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ion Table",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ", 683));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG
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Page 12
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       netList = NWSAppendToList(MSG("LAN/WAN", 537), (void *)OUT_NETWORK, NUTH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  slipList = NWSAppendToList (MSG("Modem - SLIP", 519), (void *)OUT_SLIP,
                                                                                                                                                                                                                                                                                                                                                                                                   *
                                                                                                                                                                                                                                                                                                                                                                         CMovB(tmpDlocfg->wait_for_1, Dlocfg.wait_for_1, 30*18);
CMovB(&tmpDlocfg->wait_timeout_1, &Dlocfg.wait_timeout_1, 9
                                                                                                                                                                                                                                                                       Confirm message,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pppList = NWSAppendToList(MSG("Modem - PPP", 521), (void *)OUT_PPP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ChangeProtocol (FIELD *fp, int key, int *changed, NUTInfo *handle)
                                                                                                                                                                                                                           Control flags, help message
                                                                                                              NWSEditPortalForm(InxMSG("Login Script Editor", 582),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *netList
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            == OUT_PPP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     OUT_SLIP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tmpDloCfg = (DloCfg_t *)fp->customData;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *pppList,
                                                                                                                                                                                                                       F_NOVERIFY, F_NO_HELP, /* Cot
InxMSG("Save Changes?", 583),
           dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          else if (tmpDloCfg->out_protocol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       H
                                                                                                                                                                                                                                                                                                                                                                                                                                             DPCUpdateConfigFile();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (NWSPushList(NUTHandle) ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSInitList(NUTHandle, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Dlocfg_t
.rgr *listPtr, *slipList,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if (tmpDloCfg->out_protocol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWSDestroyForm(NUTHandle);
NWSPopList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     listPtr = pppList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          listPtr = netList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LONG rcode = K_SELECT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return rcode;
                                                                                                                                                                                                                                                                   NUTHandle);
                                                                                                                                                          *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             changed = changed;
handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int NewProtocolFlag = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return K_SELECT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ccode = NWSList(
                                                                                                                                                          column
                                                                                                                                        12, 40,
                                                                                                                                                                                1, 78,
                                                                                                                                                                                                     width
Page 11 Thu Jul 17 14:48!11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG ccode,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           key = key;
                                                                                                                                                                                                                                                                                                                                  if (save)
                                                                                                                                                          center line,
                                                                                                                                                                                                     /* form height,
                                                                                                                    save =
                                                                     1++1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 else
                                                                                                                                                                                                                                                                                                                                                                                                                     zeof (LONG));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        UTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    andle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           andle);
                                                                                                                                                                                                                                                                                        *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       LONG
                                                                                                                                                          *
                                                                                                                                                                                                                                                                                            e
                                                                                        NWSAppendCommentField(i, 2, MSG("Wait6: ", 536), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->wait_for_6,
printables, F_NO_HELP, NUTHandle);
NWSAppendCommentField(i, 40, MSG("Wait Timeout 6: ", 604), NUTHandle);
NWSAppendIntegerField(i, 56, NORMAL_FIELD, (int *)&tmpDloCfg->wait_timeo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NWSAppendCommentField(i, 2, MSG("Wait8: ", 544), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->wait_for_8,
printables, F_NO_HELP, NUTHandle);
NWSAppendCommentField(i, 40, MSG("Wait Timeout 8: ", 606), NUTHandle);
NWSAppendIntegerField(i, 56, NORWAL_FIELD, (int *)&tmpDloCfg->wait_timeo 2, 60, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSAppendCommentField(i, 2, MSG("Send5: ", 534), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_5,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendCommentField(i, 2, MSG("Send8: ", 546), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_8,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSAppendCommentField(i, 2, MSG("Send9: ", 550), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_9,
printables, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSAppendCommentField(i, 2, MSG("Send6: ", 538), NUTHandle);
NWSAppendStringField(i, 9, 30, NORMAL_FIELD, tmpDloCfg->send_6,
printables, F_NO_HELP, NUTHandle);
 printables, F_NO_HELP, NUTHandle);
               dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        60, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2, 60, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               60, F_NO_HELP, NUTHandle);
           Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
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                                                                                                                                                                                                                         ut_5,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ut_8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ut_6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ut_7,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ut_9,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               : ", 126), NU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          40, BaudRateHand
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     30, NORMAL_FIELD, tmpDloCfg.tinet_phone_num,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ", 128),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NUTHandle);
NUTHandle);
NUTHandle);
NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ), NORMAL_FIELD, protocolStr, ChangeProtocol, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NWSAppendToMenuField(mfctl0, InxMSG("3600", 131), 1, NWSAppendToMenuField(mfctl0, InxMSG("7200", 133), 2, NWSAppendToMenuField(mfctl0, InxMSG("9600", 146), 4,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSGetListSortFunction(NUTHandle, koldSortFunction); NWSSetListSortFunction(NUTHandle, NoSortHandler);
                                                                                                                                                                                                                                                                                                                                        int i;
void (*oldSortFunction)(LIST *, LIST *, NUTINfo *);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mfctl0 = NWSInitMenuField(InxMSG("Baud Rate", 129),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dial_chars, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSAppendToMenuField(mfctl0, InxMSG("2400", 130),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protocolStr = MSG("Modem - SLIP", 527);
else if (tmpDloCfg.out_protocol == OUT_PPP)
protocolStr = MSG("Modem - PPP", 529);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NWSAppendCommentField(i, 2, MSG("Internet Phone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendCommentField(i, 2, MSG("Internet Baud
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CMovB(&DloCfg, &tmpDloCfg, sizeof(DloCfg_t));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InxMSG("3600",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protocolStr = MSG("LAN/WAN", 584);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (tmpDloCfg.out_protocol == OUT_SLIP)
             dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    baud = tmpDloCfg.tinet_baud_index;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fp = NWSAppendHotSpotField(i, 50,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fp->customData = &tmpDloCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   int ip0, ip1, ip2, ip3;
int gw0, gw1, gw2, gw3;
MFCONTROL *mfcel0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NWSAppendStringField(1, 30,
                                                                                                                           NWSDestroyList(NUTHandle);
NWSPopList(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                           tmpDlocfg;
                                                                                                                                                                                                                                                                             void ProviderConfiguration(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NWSInitForm(NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  char *protocolStr;
char *pppConfigStr;
int cflags = F_VERIFY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NewProtocolFlag = -1;
                                                                                                                                                                                                                                                                                                                                                                                                save; */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             char *tunnelStr;
                                                                                                                                                                                    return rcode;
  Page 13 Thu Jul 17 14 48 1, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          FIELD *fp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int baud;
                                                                                                                                                                                                                                                                                                                                                                                                                      DloCfg_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ler, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NewProtocolLoop:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 = 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               THandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          THandle);
                                                                                                                                                                                                                                                                                                                                                                                              tmpDloCfg->out_protocol = NewProtocolFlag = (int)listPtr->otherI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          enableList = NWSAppendToList(MSG("Enabled", 624), (void *)1, NUTHandle);
disableList = NWSAppendToList(MSG("Disabled", 625), (void *)0, NUTHandle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tmpDloCfg->tunnel = NewProtocolFlag = (int)listPtr->otherInfo;
                                                                                                                           *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   /* Height */
/* Width */
                                                                                                                         Height */
Width */
The same state of the same sta
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ChangeTunnel(FIELD *fp, int key, int *changed, NUTInfo *handle)
L.
  12
  InxMSG("Outbound Protocol", 509),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InxMSG("Tunnel Header", 626),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 *tmpDloCfg;
', *enableList, *disableList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   tmpDloCfg = (DloCfg_t *)fp->customData;
                dlo.c
                                                                                                                                                                                    M_ESCAPE | M_SELECT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            M_ESCAPE | M_SELECT.
                                                                                                                                                                                                                                               NUTHandle, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (NWSPushList(NUTHandle) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NUTHandle, NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               listPtr = disableList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NWSInitList(NUTHandle, NULL);
                                                                                                                                                                                                                                                                               NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            listPtr = enableList;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NULL, NULL);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSDestroyList(NUTHandle);
NWSPopList(NUTHandle);
                                                                                                                                                                                                                 &listPtr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                      rcode = K_ESCAPE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         rcode = K_ESCAPE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 12, 40,
                                                                                                                                                                                                                                                                                                                                     if (ccode == M_SELECT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (tmpDloCfg->tunnel)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LONG rcode = K_SELECT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ccode == M_SELECT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              return rcode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  key = key;
changed = changed;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              *listPtr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                handle = handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ccode = NWSList(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return rcode;
                  Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG ccode;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Dlocfg_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ij.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             //LONG
                                                                                                                                                                                                                                                                                                                                                                                                                              nfo;
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Page 16
                                                                                                                                     NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Contr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /* Confirm message, hand
                                                                                                                                                                                                               30, NORMAL_FIELD, (BYTE *)&tmpDloCfg.auto_login,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   =*/ NWSEditPortalForm(InxMSG("Provider Configuration Editor",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ModifyPPPConfig, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          "Modify Network Configuration", ModifyNetConfig, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                        ModifyLoginScript, NUTHandle);
                                                                                                                                     552),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pppConfigStr = MSG("Modify PPP Configuration", 608);
                                                                                                                                                                                                                                                                                                                                      protocolStr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NORMAL_FIELD,
                                                                                                                                     30, MSG("Slip Configuration",
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26, NORMAL_FIELD,
                                                                                                                                                                           Enabled
                                                                                                                                                                                                                                                                                               535);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            oldSortFunction);
                                                                                                                                                                                                                                                                                                                                      NORMAL_FIELD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Changes?", 556) */ NULL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (tmpDloCfg.out_protocol == OUT_NETWORK)
                                                                                                                                                                                                                                                                                            protocolStr = MSG("Modify Auto Login Script",
                                                                                                                                                                           2, MSG("Auto Login
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ip1 << 8) |
(ip2 << 16) |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fp = NWSAppendHotSpotField(i, 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /* cflags*/F_NOVERIFY, F_NO_HELP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                         == OUT_PPP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          = NWSAppendHotSpotField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      = &tmpDloCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fp->customData = &tmpDloCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tmpDloCfg.ip_address = hton1((ip0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSSetListSortFunction(NUTHandle,
                                                                                                                                                                                                                                                                                                                                      = NWSAppendHotSpotField(i, 25,
                                                                                                                                                                                                                                                                                                                                                                            fp->customDataRelease = NWSFree;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   goto NewProtocolLoop;
                                                                                                                                                                                                                                                                                                                                                                                                fp->customData = &tmpDloCfg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          if (tmpDloCfg.out_protocol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (NewProtocolFlag (= -1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NWSDestroyForm(NUTHandle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               = F_FORCE;
                                                                                                                                     NWSAppendCommentField(i,
                                                                                                                                                                       NWSAppendCommentField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            flags, help message */
/* InxMSG("Save
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fp->customData
                                                                                                                                                                                                                   NWSAppendBoolField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             12, 40,
column
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cflags
                                                                                                                                                                                                                                 NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     form height, width
 Page 15 | Thu Jul 17 14:46: 11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (!save)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else if
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /* save
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               /* center line,
                                    LP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                      ξb
                                                                                                                                                                                                 THandle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>S</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         je
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ក
                                                                                                                                     1
                                                                                                                                                                                                                                                                                                                                                                              :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NWSAppendintegerField(i, 42, NORMAL_FIELD, &gw0, 1, 255, F_NO_HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendIntegerField(1, 30, NORMAL_FIELD, &ip3, 1, 255, F_NO_HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F_NO_HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       F_NO_HE
                                NWSAppendToMenuField(mfctl0, InxMSG("19200", 297), 5, NUTHandle);
NWSAppendToMenuField(mfctl0, InxMSG("38400", 300), 6, NUTHandle);
NWSAppendToMenuField(mfctl0, InxMSG("57600", 304), 7, NUTHandle);
NWSAppendToMenuField(mfctl0, InxMSG("115200", 305), 8, NUTHandle);
NWSAppendMenuField(i, 30, NORMAL_FIELD, &baud, mfctl0, NULL, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        255, F_NO_HE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F_NO_HE
                                                                                                                                                                                                                     655
                                                                                                                                                                                                                                                                                                                              NWSAppendIntegerField(1, 30, NORMAL_FIELD, (int *)&tmpDloCfg.tinet_inactivity_timer, 1, 65535, F_NO_HELP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F_NO_HE
                                                                                                                                                                                                                                                                                                                                                                                                                      2
                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSAppendBoolField(i, 30, NORMAL_FIELD, (BYTE *)&tmpDloCfg.tunnel, F_NO_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F_NO_HE
                                                                                                                                                                             NO
                                                                                                                                                                                                                                                                                                 Š
                                                                                                                                                                           ", 309),
                                                                                                                                                                                                                     'n
                                                                                                                                                                                                                     30, NORMAL_FIELD, (int *)&tmpDloCfg.mtu,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           255,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 255,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LONG ip_address = ntohl(tmpDloCfg.ip_address);
LONG gateway_address = ntohl(tmpDloCfg.gateway_address);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         &gw1, 1, 255,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1, 255,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gw2 = (gateway_address >> 16) & 0xff;
gw3 = (gateway_address >> 24) & 0xff;
NWSAppendCommentField(i, 2, MSG("Hybrid Gateway Address
 ,i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSAppendIntegerField(i, 30, NORMAL_FIELD, &gw3, 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 38, NORMAL_FIELD, &ipl, 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         £ip0, 1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tunnelStr,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ChangeTunnel, NUTHandle);
                                                                                                                                                                                                                                                                                                 Inactivity (sec)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   £gw2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NWSAppendIntegerField(i, 34, NORMAL_FIELD, &ip2,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                = (ip_address) & Oxff;

= (ip_address >> 8) & Oxff;

= (ip_address >> 16) & Oxff;

= (ip_address >> 24) & Oxff;

AppendCommentField(i, 2, MSG("IP Address(ISP)
2, MSG("IP to IP tunneling
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NWSAppendIntegerField(i, 34, NORMAL_FIELD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NWSAppendIntegerField(i, 38, NORMAL_FIELD,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NORMAL_FIELD,
 i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NORMAL_FIELD,
                                                                                                                                                                              MTC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            gw1 = (gateway_address >> 8) & Oxff;
                                                                                                                                                                           NWSAppendCommentField(i, 2, MSG("Internet
                                                                                                                                                                                                                                                                                                   2, MSG("Internet
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tunnelStr = MSG("Disabled", 628);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        tunnelStr = MSG("Enabled", 627);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gw0 = (gateway_address) & 0xff;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           42,
 dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       30,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ip3 = (ip_address >> 24)
NWSAppendCommentField(i,
306), NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NWSAppendIntegerField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NWSAppendIntegerField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       = NWSAppendHotSpotField(i,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fp->customData = &tmpDloCfg
                                                                                                                                                                                                                                                                                                                                                                                                                      NWSAppendCommentField(i,
                                                                                                                                                                                                                       NWSAppendIntegerField(i,
                                                                                                                                                                                                                                                                                                   NWSAppendCommentField(1,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            307), NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if (tmpDloCfg.tunnel)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (tmpDloCfg.tunnel)
                                                                                                                                                                                                                                            35, F_NO_HELP, NUTHandle);
       Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ip0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ipl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ip2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  /// NWSAppen
HELP, NUTHandle)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I.P., NUTHLANGLE!;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LP, NUTHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else
                                                                                                                                                                                                      THandle);
                                                                                                                                                                                                                                                                                                                           THandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                               THandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ĽP,
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	Thu Ju	Thu Jul 17 14:46:11 1997 dlo.c	: 1
treplicing times, band, index = band;  1904 < 48)   shippendecomparized to the content of the co		= hton1((gw0)	indemi_control_cinats, r_NO_nbir, NOINandle);
rmpDlocGy.timeLband_index = band;  If (memorptiocGy.timeLband_index = band;  If (memorptiocGy.timeLband_index = band;  If (memorptiocGy.timeLband_index = band;  If (memorptiocGy.timeLband_index = band;  If (memorptiocGy.timeLband_index)  If (memorptiocGy.timeLb		(gw1 << (gw2 <<	<pre>NWSAppendCommentField(i, 2, MSG("Hangup Str ;</pre>
If (memcepticott, kepplacet, state_land)		\gw3 <<	<pre>NWSAppendStringField(i, 24, 20, NORMAL_FIELD, tmpDloCfg.hangup_str, modem_control_chars, F_NO_HELP, NUTHandle);</pre>
Wordsconfinalizables()   Wordsconfinalizable		Outorig.timet_baud_index = baud; (memcmo(kD)ocfd. ktmoDlocfd. sizeof(Dlocfd))	++; WSArnendCommentField(i 2 MSG/*Dieconnect
**************************************		<pre>NWSConfirm(InxMSG("Save Changes?", 612), 0, 0, TRUE, NUTHandle, NULL) == FALSE)</pre>	<pre>// NWSAppendStringField(i, 24, 20, NORMAL_FIELD, tmpDlocfg.disconne modem_control_chars, F_NO_HELP, NUTHandle);</pre>
CMONG NOTION CONTROLLED TO THE TOWN ON THE PROPERTY OF THE TOWN ON THE PROPERTY OF THE TOWN ON THE PROPERTY OF THE TOWN OF THE		Get newest wait_for and send strings in case ModifyLo	<pre>i++; NWSAppendCommentField(i, 2, MSG("Escape</pre>
CHONG (LDDOCES, walt_Local., tempolocing walt_cimeout_1, 3) * sizeof(LONG CHONG (LDDOCES, walt_Local., tempolocing walt_cimeout_1, 3) * sizeof(LONG CHONG (LDDOCES, walt_Local.)  CHONG (LDDOCES, walt_Local.)  Inst(thangeTrot coll)  Inst(thangeTrot coll)		*/*	NWSAppendStringField(i, 24, 20, NORMA modem_control_chars,
CHOYD (tempDloCfg, tolocfg, sizeof(DloCfg_L));  InetChangeProtocol();  InetChangeProtocol();  InetChangeProtocol();  MNSAppendStringFile();  A ModemConfiguration(void)  Int 1,  Int 1,  MNSAppendStringFile();  A ModemConfiguration(void)  Int 1,  MNSAppendConfiguration(void)  MNSSatistortEvention(WITHandle, List*, NUTLING*);  MNSSatistortEvention(WITHandle, RobortHandler);  MNSSatistortEvention(WITHandle, RobortHandler);  MNSSatistortEvention(WITHandle, RobortHandler);  MNSSatistortEvention(WITHandle, Lite(sec) : *, 325), NUTHandle)  MNSSatistortEvention(WITHandle, Lite(sec) : *, 335), NUTHandle)  MNSAppendCommentPield(1, 2, MSG(*Packet Life(sec) : *, 335), NUTHandle)  MNSAppendCommentPield(1, 2, MSG(*Packet Life(sec) : *, 335), NUTHandle)  MNSAppendIntegerField(1, 24, NGRNAL_FIELD, (int *)*tempDloCfg.packet_life  **I (list*)*  MNSAppendIntegerField(1, 24, NGRNAL_FIELD, (int *)*	>>=	* •	i++; NWSAppendCommentField(i, 2, MSG("Connect str
InetchangeProtocol();  DPCUpdateConfigFile();  MNGAppendCommentField(i, 2, NSG('Init strange);  Int 1;  Locate time, sold (oldSortFunction);  NNSAppendCommentField(i, 2, NSG('Init strange);  NNSAppendCommentField(i, 2, NSG('Packet Life(sec); ", 325), NUTHandle);  NNSAppendCommentField(i, 2, NSG('Call Setup(sec); ", 325), NUTHandle);  NNSAppendCommentField(i, 2, NSG('Call Setup(sec); ", 325), NUTHandle);  NNSAppendCommentField(i, 2, NSG('Call Setup(sec); ", 325), NUTHandle);  NNSAppendCommentField(i, 2, NSG('Nymc Buffer Size; ", 212), NUTHandle);  NNSAppendCommentField(i, 2, NSG('Nymc Buffer Size; ", 2123), NUTHandle);  NNSAppendCommentField(i, 2, NSG(		CMovB(&tmpDloCfg, &DloCfg, sizeof(DloCfg_t));	NWSAppendStringField(i, 24, 50,
DPCUpdateConfigFile();  d ModemConfiguration(void)  int is the sevent probable (int );  int is sevent probable (in		InetChangeProtocol();	
d ModemConfiguration(void)  int i		DPCUpdateConfigFile();	i++; NWSAppendCommentField(i, 2, MSG("Init
int i;  bit save:  Dioctgrt  void ('oldsorrEunction) (LIST ', LUST ', NUTLINEO ');  CHOVE (ablocfg, timpblocfg, sizeof(blocfg_L));  CHOVE (ablocfg, timpblocfg, sizeof(blocfg_L));  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSetListSorrEunction(MTHandle);  NMSSpendCommentField(1, 2, NORMAL_FIELD, (int ') & timpblocfg, call_setup;  (' form height, ' C' Call Setup (sec) : ', 325), NUTHandle);  I essage ', Inakeg('Save Changees?', 514),  NMSAppendCommentField(1, 2, NORMAL_FIELD, (int ') & timpblocfg, call_setup;  (' form height, ' C' Call Setup (sec) : ', 325), NUTHandle);  I essage ', Inakeg('Save Changees?', 514),  NMSSpendIntegerField(1, 24, NORMAL_FIELD, (int ') & timpblocfg, call_setup;  I ( Sobret Mine (sec) : ', 325), NUTHandle);  I ( Sobret Mine (sec) : ', 325), NUTHandle);  I ( Sobret Mine (sec) : ', 325), NUTHandle);  I ( Sobret MINE (sec) : ', 325), NUTHandle);  I ( Sobret Mine (sec) : ', 325), NUTHANDLE);  I ( S	void M	odemConfiguration(void)	; NWSAppendStringF
Diocfg. tampolocfg, sizeof (Diocfg.t.);  CMOVB(&DIOCfg.t. ktmpDlocfg.t.);  CMOVB(&DIOCfg.t. ktmpDlocfg.t.);  CMOVB(&DIOCfg.t. ktmpDlocfg.t.);  NWSSetListSortFunction(NUTHandle);  NWSSetListSortFunction(NUTHandle);  NWSSetListSortFunction(NUTHandle);  NWSSetListSortFunction(NUTHandle);  NWSSetListSortFunction(NUTHandle);  NWSSpendCommentField(1, 2, MSG("Packet Life(sec) :", 325), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Call Setup (sec) :", 326), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Call Setup (sec) :", 326), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 212), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 325), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 329), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 329), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 329), NUTHandle);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAppendIntegerField(1, 2, MSG("Chic Buffer Size : ", 329), NUTHANDLE);  NWSAPPER Size : ", 100 NORMAL_FIELD, Integer Size : ", 100 NORMAL_FIELD, Integer Size : ", 100 NORM			
CHOONE (aDIOCEG, ktmpDloCEG, sizeof(DloCEG_L));  NNSGetListSortPunction(NUTHandle);  NNTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLISTSORTED, NUTHANGLI		*, LIST *, NUTINEO	save = NWSEditPortalForm(InxMSG("Modem Configuration Editor", 513),
MMSSappendIntegerField(i, 24, NORMAL_FIELD. (int *)&tmpDloCfg.async_buffe   MSAppendCommentField(i, 24, NORMAL_FIELD. (int *)&tmpDloCfg.async_buffe   MSAppendCommentField(i, 24, NORMAL_FIELD. (int *)&tmpDloCfg.async_buffe   MSAppendIntegerField(i, 24, NORMAL_FIELD. (int *)&tmpDloCfg.async_buffe   BufferSize   DloBUFSIZE;   BufferSize = (AlOWFiteBufferSize = (AloWFiteBufferS			center line, column i, 76, form height, width
NWSGetListSortPunction(NUTHandle, KoldSortFunction);  in = 0;  NWSSetListSortPunction(NUTHandle, NoSortHandle);  in = 0;  NWSSetListSortPunction(NUTHandle, NoSortHandle);  NWSAppendCommentField(1, 2, MSG("Packet Life(sec) : ", 325), NUTHandl    NWSAppendCommentField(1, 2, MSG("Packet Life(sec) : ", 326), NUTHandl    NWSAppendIntegerField(1, 2, MSG("Call Setup(sec) : ", 326), NUTHandl    NWSAppendIntegerField(1, 2, MSG("And Eleb (int *) & tempolocfg, call_setup    NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 212), NUTHandl    NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 212), NUTHandl    NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 212), NUTHandl    NWSAppendIntegerField(1, 2, MSG("Aync Buffer Size : ", 212), NUTHandl    NWSAppendIntegerField(1, 2, MSG("Dial Prefix : ", 329), NUTHandl    NWSAppendCommentField(1, 2, MSG("Dial Prefix : ", 329), NUTHandl    NWSAppendCommentField(1, 2, MSG("Dial Prefix : ", 329), NUTHandl    NWSAppendStringField(1, 2, MSG("Dial Prefix : ", 329), NUTHandl    NWSAppendStringField(1, 2, NSG("Dial Prefix : ", 329), NUTHANDL    NUTHANDL			F_VERIFY,
<pre>i = 0; NWSAppendCommentField(i, 2, MSG("Packet Life(sec) : ", 325), NUTHand1 NWSAppendCommentField(i, 2, MSG("Packet Life(sec) : ", 325), NUTHand1 NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&amp;tmpDlocfg.packet_life</pre>		&oldSortFunction); NoSortHandler);	onge ", InxMSG("Save Changes?", 514), NUTHandle);
wws.AppendIntegerField(i, 24, NORMAL_FIELD, (int *)&tmpDloCfg.packet_life if (!save) return;  i++;  NWSAppendIntegerField(i, 2, MSG("Call Setup(sec) : ", 326), NUTHand1  wws.AppendIntegerField(i, 2, MSG("Call Setup(sec) : ", 326), NUTHand1  wws.AppendIntegerField(i, 2, MSG("Call Setup(sec) : ", 326), NUTHand1  wws.AppendIntegerField(i, 2, MSG("Aync Buffer Size : ", 212), NUTHand1  wws.AppendIntegerField(i, 2, MSG("Dial Prefix : ", 329), NUTHand1  bufferSize : DLOBUFSIZE;  DPCUpdateConfigFile();  wws.AppendStringField(i, 2, MSG("Dial Prefix : ", 329), NUTHand1  wws.AppendStringField(i, 24, 10, NORMAL_FIELD, tmpDloCfg.dialout_prefix, ", 329), NUTHand1  bufferSize : DLOBUFSIZE;  DPCUpdateConfigFile();  if (!save) if (!save) if (!save) converted (int *)&tmpDloCfg.packet_life if (AlOPOrtHand1e);  lif (AlOPOrtHand1e) if (AlOPOrtHand1e, and a local section integer		2. MSG ("Packet Life(sec) : ". 325). NUTHand	// NWSSell, at Sort Function (NITH and 1 e.
<pre>i++; NWSAppendCommentField(i, 2, MSG("Call Setup(sec) : ", 326), NUTHand1 NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&amp;tmpDloCfg.call_setup_ (</pre>		NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&tmpDloCfg.packet_lif, 65535, F_NO_HELP, NUTHandle);	<pre>DestroyForm(NUTHandle); (!save)</pre>
NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&tmpDloCfg.call_setup_ (from thandle i= -1)		: ", 326),	&Dlocfg, sizeof(Dlocfg_t))
AIOSetWriteBufferSize(AlOPortHandle, NWSAppendCommentField(i, 2, MSG("Aync Buffer Size : ", 212), NUTHandle AIOGetWriteBufferSize(AlOPortHandle, DloBMaxBufferSize = (AIOWriteBufferSize = (AIOWriteBu	e); timeou	<pre>NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&amp;tmpDloCfg.call , 1, 65535, F_NO_HELP, NUTHandle);</pre>	(AlOPortHandle != -1)
i++; NWSAppendCommentField(i, 2, MSG("Dial Prefix : ", 329), NUTHandl ) NWSAppendStringField(i, 24, 10, NORMAL_FIELD, tmpDloCfg.dialout_prefix,	e); r_size	<pre>i++; NWSAppendCommentField(i, 2, MSG("Aync Buffer Size : ", 212), NUTHandl NWSAppendIntegerField(i, 24, NORMAL_FIELD, (int *)&amp;tmpDloCfg.async_buffe 1500, 1024*100, F_NO_HELP, NUTHandle);</pre>	AIOSetWriteBufferSize(AIOPortHandle, Dlc AIOGetWriteBufferSize(AIOPortHandle, &AI DloPMaxBufferSize = (AIOWriteBufferSize : DLOBUFSIZE; DloIMaxBufferSize = (AIOWriteBufferSize : DLOBUFSIZE;
NWSAppendStringField(i, 24, 10, NORMAL_FIELD, tmpDloCfg.dialout_prefix,		: ", 329),	
	 ô	, tmpDloCfg.	

Thu Jul 17 14:46:11 1997 dlo.c dlo.c	hu Jul 1714 4746;11 1997 dlo.c
void DPCConfiguration(void)	size - max number of bytes to
LIST *listPtr = NULL; LONG ccode = M_SELECT;	Output:
*)1,	of bytes read
NWSAppendToList (MSG("Package Delivery Configuration", 507), (void *)2, N UTHandle); NWSAppendToList (MSG("Provider Configuration", 508), (void *)3, NUTHandle	
); while (ccode != M_ESCAPE)	int DioGetkGvBytesburiered(Void)  (
ccode = NWSList( InxMSG("DPC Configuration", 533), 12, 40,	) int DloReceive (BYTE *buffer, int size)
32,	<pre>int i,iRetSize = 0; if(DloRcvCount) </pre>
*/ M_ESCAPE   M_SELECT, &listPer, NUTHANGIe, NULL, NULL, NULL);	<pre>iRetSize = (DloRcvCount &gt; size)? size : DloRcvCount; DloRcvCount -= iRetSize;</pre>
<pre>if (ccode == M_SELECT)</pre>	<pre>for(1=0;1x1RetS1Ze;1++)</pre>
if (NWSPushList(NUTHandle) != 0)	
switch ((int)listPtr->otherInfo)	
case 1: ModemConfiguration(); break;	return iRetSize;
<pre>case 2:     PDConfiguration();     break;</pre>	/*************************************
<pre>case 3:     ProviderConfiguration();     break;</pre>	Description:  This routine returns true if the modem transmit buffer is empty,  meaning that all previous requests have been sent.
default: break;	Input: nothing
) NWSPopList (NVTHandle); )	Output:
) NWSDestroyList(NUTHandle);	Returns: TRUE if transmit buffer is empty
***************************************	int DloEmpty (void)
* DloReceive(BYTE *buffer * int size)	<pre>if (DloConn == DLO_CONN_PACKAGE)  return (DloPXmitCount == 0); else  return (DloIXmitCount == 0);</pre>
* Description:  * This routine reads a bytes from the global modem receive buffer  * and returns it to the caller.  * Input:	} /************************************

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Thu Jul 17 14:46:11 1997 dlo.c	Page-21-Thu Jul 17-144641 1997 dlo.c
if the free modem needs to be dailed.	teModemStr(MSG("Modem Status: 559));
* Input:	UpdateModemStr(MSG("Modem Status: Dialing \n", 560));
* Output:	***************************************
Returns	ProcessDisconnect(void)
**************************************	Description: This routine is called when where attaching and we lose Carrier Detect.
static void WriteCommPhoneNumber(void)	Input:
int baudIndex, i; char *number;	Output:
<pre>if (DloConn == DLO_CONN_PACKAGE) baudIndex = DloCfg.pdeliv_baud_index;</pre>	Returns:
eise baudindex = DloCfg.tinet_baud_index;	DOCUTION
AIOConfigurePort(AIOPortHandle, AIOBaudRateDefines(baudIndex1, AIO_DATA_BITS_8, AIO_STOP_BITS_1, AIO_PARITY_NONE,	ProcessDisconnect(void)
Alo_SOFTWARE_FLOW_CONTROL_OFF ALO_HARDWARE_FLOW_CONTROL_OFF	
if (DloCfg.dialout_prefix{0})	
<pre>if (DloConn == DLO_CONN_PACKAGE)</pre>	otscomected from Package
<pre>else     number = Dlocfg.tinet_phone_num; for (i = 0, number[i]; i++)</pre>	
if (numb	72)
break; if (number[i] > '2' && number[i] < 'a') break;	<pre>count = DioiXmitCount; )</pre>
( ; f	if (count)
	WriteCommPhoneNumber(); DloStartTimer(DloCfg.call_setup_timeout * 19);
SendAIOData(DloCfg.dialout_prefix, CStrLen(DloCfg.dialout_prefix	if (DloConn = DLOS_CANN_INET)
	ן יייריטינעראריייאוושפן ענולטיייעריייאוושפן (בורעריייאוושפן ענולטיייעריייאוושפן (בורעריייאוושפן (בורעריייאוושפ e]se
else	*
<pre>if (DloConn == DLO_CONN_PACKAGE)</pre>	DioScartinmer(1 19); DioState = DLOS_DISC_4; if (DloConn == DLO_CONN_INET) InetStateChange(DLOS DISC 4);
else SendAIOData(DloCfg.tinet_phone_num, CStrLen(DloCfg.tinet_phone_num));	
	医自由性 计技术的主义 计文文记录记录 医电压管 化甲基吡咯 化水杨 化水杨 化化铁 医电管 医电管 医生活 化光光 化物物 医甲状腺性蛋白 化水杨 化铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁铁
SendAIOData(MSG("\r", 613), 1);	DloEndConn(void)
if (DloState == DLOS_REDL)	Description:

Thu Jul 17 14:46:11 1997 dlo.c	Page:23  Thm Jun 17114446;111997   Page 24   LONG extStatus = 0, chgdExtStatus;
nothing	<pre>if (AIOPortHandle &lt; 0)     return(FALSE);</pre>
nothing	AIOGetExternalStatus( AIOPortHandle, &extStatus, &chgdExtStatus); if (extStatus & AIO_EXTSTA_DCD) return(TRUE);
nothing	return(FALSE);
人名英格兰 医克克氏性 医克克氏性 医克克氏性 医克克氏性 医克克氏性 医克克氏性 医克克氏征 医克克氏征 医克克氏征 医克克氏征 医克克氏征 人名英格兰人姓氏格兰人名 医克克氏征 医克氏征 医	
DloEndConn(void) if (AIOPortHandle < 0)	<pre>static void _0003 (void) {    LONG extStatus, chgdExtStatus;</pre>
return; (DloConn == DLO_CONN_PACKAGE)  DloPXmitCount = 0;  DloIXmitCount = 0;	<pre>InitializeAIO(); if (AIOPortHandle &lt; 0) {     UpdateModemStr(MSG("Modem Status: ERROR - Unable to initialize A</pre>
switch(DloState) {	return; }
case DLOS_INIT: case DLOS_REDL: case DLOS_DIAL: case DLOS_CONN: AlOFlushBuffers(AIOPortHandle, (AIO_FLUSH_WRITE_BUFFER	It (Alogetarcefilatscacus) Alogotatus & Alo_EXTSTA_DCD)) {
AIO_FLUSH_READ_BUFFER);  Dlostate = DLOS_CONN; StateMachine(DLOE_TIMEOUT);  case DLOS_DIDE: case DLOS_DISC_1: case DLOS_DISC_2: case DLOS_DISC_2: case DLOS_DISC_3: sateMachine(DLOE_DISCONN);	<pre>); SendAlOData(BloCfg.init_str, CStrLen(DloCfg.init_str)); SendAlOData(MSG("\r", 614), 1); DloStartTimer(5 * 19); DloState = DLOS_INIT; if (DloConn == DLO_CONN_INET) InetStateChange(DLOS_INIT); UpdateModemStr(MSG("Modem Status: Initializing Modem \n", 561)); } else</pre>
) ************************************	
Description: The state machine is in the IDLE state. We've received a SND request.	<pre>WriteCommXmitBuffer(); DloState = DLOS_CONN; if (DloConn == DLO_CONN_INET)</pre>
nothing	DloConn == DLO_CONN_PACKA UpdateModemStr(MSG("W
nothing	else UpdateModemStr(MSG("Modem Status; Connected to Internet \n", 473));
nothing	<pre>if (ConnectBaudStr[0])</pre>
DloConnected(void)	NWsprintf(connectStr, MSG("Modem Status: Connect ed to Internet at%.24s\n", 563), ConnectBaudStr);

Thu Jul 17 14:46:11 1997 dlo.c dlo.c	
UpdateModemStr(c	pri
else	* *** *** * * * * * * * *
UpdateModemStr(MSG("Modem Status: Connected \n", 564));	to I static void0104(void)
	WriteCommPhoneNumber();
***************************************	DloStartTimer(DloCfg.call_setup_timeout * 19); DloState = DLOS_DIAL; if (DloConn == DLOACNN_INET) InelStateChange(DloS DIAL);
*0100 (void) In INIT state, got TIMEOUT	
* Description: * The state machine is in the INIT state. * We timed out waiting for the modem init sequence.	/*************************************
* Input: * nothing	Description:  The state machine is in the DIAL state.  It timed out waiting for connect.
* Output: * nothing	Input:
	* Output:
**************************************	*****/ * Returns:
LONG extStatus, chgdExtStatus;	\*************************************
<pre>if (AIOGetExternalStatus( AIOPortHandle, &amp;extStatus, &amp;chgdExtStatus)    !(extStatus &amp; AIO_EXTSTA_DCD))</pre>	static v
<pre>{     writeCommPhoneNumber();     DioStartTimer(DloCfg.call_setup_timeout * 19);     DloState = DLOS_DIAb;     if (DloConn == DLO_CONN_INET)         if (DloConn == DLO_CONN_INET)         InetStateChange(DLOS_DIAb);</pre>	AloFlushBuffers(AloPortHandle, AlO_FLUSH_WRITE_BUFFER); AloFlushBuffers(AloPortHandle, AlO_FLUSH_READ_BUFFER); SendAloData(MSG("\r", 615), 1); DloStartTimer(10 * 18); DloState = DLOS_REDL; if (DloConn == DLOS_REDL; if (DloConn == DLOS_CONN_INET)
	ThetsCatechange (DEUS_KEDL);
UpdateModemStr(MSG("Modem Status: Error - Still Connected \n", 242)); DloEndConn();	ed /************************************
*	Description: The state machine
*0104(void) In INIT state, got OK response	e received a CONNECT response
Description:  The state machine is in the INIT state.  We've received an OK response from sending modem init:	sequence.
* Input:	* Returns:   * nothing
• Output:	static void _0201(void)

Thu Ju	dlo.c.	Rage 27 (Thu Jul 17 19146,11 1997   Page 28
-	<pre>WriteCommXmitBuffer(); if (DloConn == DLO_CONN_PACKAGE)</pre>	Input: nothing
<del></del>	DloStartTimer(DloPInactivityTimer); UpdateModemStr(MSG("Modem Status: Connected to Package Delivery \n", 244));	output: * Output: **
	) else	Returns:
` `	DloStartTimer(DloIInactivityTimer); UpdateModemStr(MSG("Modem Status: Connected to Internet \n", 474)); if (ConnectBaudStr[0])	**************************************
		<pre>UpdateModemStr(MSG("Modem Status: Busy \n", 245));</pre>
terne	<pre>NWsprintf(connectStr, MSG("Modem Status: Connected to In ternet at%.24s\n", 491), ConnectBaudStr);</pre>	/*************************************
	UpdateModemStr(MSG("Modem Status: Connected to Internet \n", 492));	* Description: * Description: * The state machine is in the DIAL state. * We've received an NODIALTONE response from sending ATDT sequence
	DloStopPacketLifeTimer(); DloState = DLOS_CONN; if (DloConn == DLO_CONN_INET) InetStateChange(DLOS_CONN);	Input: nothing Output: nothing
* * * * *		Returns: nothing
* * * *	Description: The state machine is in the DIAL state. We got disconnected from remote side.	d_0206(void)
* * *	Input: nothing	opuscemodemocramodem status: No Dialcone (n., 246)); DloStartTimer(5 * 19);
* * *	Output: nothing	***************************************
	Returns: nothing	0207(void) In DIAL state, got RING response from mo dem
**** static	**************************************	Description: The state machine is in the DIAL state. We've received a RING response from sending modem ATDT sequence.
· <u>~</u>	ndConn();	Input: nothing
/**** dem	0205(void) In DIAL state, got BUSY response from mo	Output: nothing Returns:
* * *	Description: The state machine is in the DIAL state. We've received a BUSY response from sending ATDT sequence.	/

Thu Jul 17 14:46:11 1997 static void _0207(vo	dlo.c   In It also the transfer of the state	Rage 22   Thu Julif 1946 1 1997   dlo.c
	UpdateModemStr(MSG("Modem Status: Ringing!!! n", 247));	*0302(void) In REDIAL state, got Disconnected
****	***************************************	rescription:  The state machine is in the REDIAL state.  We got disconnected by the remote site.
m modem	0208(void) In DIAL state, got NO ANSWER response fr	Input:
	Description: The state machine is in the DIAL state. We've received a NO ANSWER response from sending ATDT sequence.	output:
iu I	Input: nothing	* Kecurns: * nothing ************************************
no	Output: nothing	d _0302 (void)
* * *	Returns: nothing	DloEndConn();
****	/*************************************	***************************************
static void	d _0208(void)	
odn (	r(MSG("Modem Status: No ANSWER	well  * Description:  The state machine is in the REDIAL state.  We've received an OK response from sending modem init sequence.
01	**************************************	* Input: nothing
	Description: The state machine is in the REDIAL state. We timed out.	
iui * * * *	Input: nothing	** Kecurns: ** nothing
	Output: nothing	_0304 (void)
* * *	Returns: nothing ************************************	<pre>writeCommPhoneNumber(); DloStarrTimer(DloCfg.call_setup_timeout * 19); DloState = DLOS_DIAL; if (DloConn == DLO_CONN_INET)</pre>
static void	1 _0300(void)	InetStateChange(DLOS_DIAL);
	<pre>UpdateModemStr(MSG("Modem Status: Timeout - Reinitializing the modem n", 249));</pre>	**************************************
AIC Ser Ser Ser DIC	AIOFlushBuffers(AloPortHandle, AlO_FLUSH_WRITE_BUFFER); AIOFlushBuffers(AloPortHandle, AlO_FLUSH_READ_BUFFER); SendAIOData(DloCfg.init_str, CStrLen(DloCfg.init_str)); SendAIOData(MSG("\r", 616), 1); DloStartTimer(5 "\l");	in Connected state, the connected state, the test the state machine is in the CONNECTED state.  The state machine is in the CONNECTED state.  The state machine is in the CONNECTED state.
910 ( )	State = DLOS_INII; (DloConn == DLO_CONN_INET) Inet Statecthange (DtOS_INIT);	Input: nothing  Output:

hu Jul 17 14:46:11 1997 dlo.c lb.	
* nothing	* Input:
* Returns:	* Output:
****	* nothing
tatic void _0400(void)	* Returns: * nothing
	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
DIOState = DLOS_DISC_1; if (DloNextConn == DloConn)	static void _0403(void)
	<pre>if (DloConn == DLO_CONN_PACKAGE)     DloStartTimer(DloPInactivityTimer);</pre>
<pre>\n", 566)); InetStateChange(DLOS_DISC_1);</pre>	else DloStartTimer(DloInactivityTimer);
else if (DloConn == DLO_CONN_PACKAGE) UpdateModemStr(MSG("Modem Status: Disconnecting from Package Delivery	***************************************
(10.) (10.) (1.) (1.) (1.) (1.) (1.) (1.) (1.) (1	0500(void) In Disconnect 1 state, got timed out
('u')	
***************************************	Two ways to get in:
* 0402 (void) In CONNECT state, got disconnected	* - Inactivity timer kicked in
	- Set 1.5 pre-escape tim
DESCRIPTION: State: The state machine is in the CONNECT state. Event: We were disconnected by the remote site. Action: If still have data to send:	* Inactivity timer kicked in  - Set 1.5 pre-escape timer(DLO *
* Send connect string(ATDT 1800), DLOS DIAL state.	S_DISC_1)
	Sent
. input: * nothing '.	Event: Intentional 1.5 or 10 second timeout. Action: Send escape string(+++) set 2 second timer. DLOS DISC 2
* Output:	
* Returns:	* Input:
/*************************************	* Output:
static void _0402(void)	* Returns:
ProcessDisconnect();	**************************************
***************************************	_0500(void)
*0403(void) In CONNECTED state, got SEND request	AIOFlushBuffers(AIOPortHandle, (AIO_FLUSH_READ_BUFFER));
<ul> <li>Description:</li> <li>State: The state machine is in the CONNECTED state.</li> <li>Event: We've received a request to send data to the remote site</li> </ul>	<pre>if (DebugFlag) fputs(DloCfg.escape_str, stdout);</pre>
Action: Extend the inactivity timer,	SendAlOData(DloCfg.escape_str, CStrLen(DloCfg.escape_str)); DloStartTimer(2 * 19);

Thu Jul 17 14:46:11 1997 dlo.c	Thu, 10, 12, 1444 (1) 1997 dlo.c
<pre>DloState = DLOS_DISC_2; if (DloConn == DLO_CONN_INET) InetStateChange(DLOS_DISC_2);</pre>	ing
	* Returns: nothing
* Description: * State: Disconnect 1 state.	\*************************************
	static void _0600(void)
* - Set 1.5 pre-escape time or (DLOS DISC 1)	delayloada(%35) (1 , 01), 1), delayloada(%35) (1 , 01), 1)
*  *  *  *  *  *  *  *  *  *  *  *  *	DIOState = DLOS_DISC_3; if (DloConn == DLO_CONN_INET) InetStateChange(DLOS_DISC_3);
- Sent	
second timer(DLOS_DISC_2)  * Sent handup string w/1	· ************************************
1.50	0602(void) In Disconnect 2 state, got disconnected
	Description:
* 1800), DLOS_DIAL state.	
else Start 1 second timer. Di	S_DISC_1)
	site while waiting
* Input:	sending +++.
* Output:	* Action: If still have data to send: * 1800), DLOS_DIAL state.
* Returns:	
* nothing	OS_DISC_4 state,
static void _0502(void)	Input: nothing
ProcessDisconnect();	Output: nothing
	Returns: nothing
*0600(void) In Disconnect 2 state, timed out	\*************************************
* Description: * State: Disconnect 2 state: - Inactivity timer kicked in * Set 1.5 pre-escape timer(DLO)	<pre>static void _0602(void) {     ProcessDisconnect(); }</pre>
escape	***************************************
scond timer(DLOS_DISC_2)  Event: We timed out, modem didn't respond.  Action: Send Hangup string with 10 second timer, DLOS_DISC_3 sta	0604(void) In Disconnect 2 state, got OK response f
	Doscription: State: Disconnect 2 state:

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- Inactivity t	19);
S_DISC_1) * - Sent escape string w/2	DIOState = DLOS DISC_Z; if (DloConn == DLO_CONN_INET)
<pre>second timer(DLOS_DISC_2)  *</pre>	
٠.٠٠	人名阿萨兰西西英格兰英格兰英格兰英语 化水子 医外外 医外外 医水子 医水子 医水子 医水子 医水子 医水子 医水子 医生物 医生物 医生物 医生物 医生物 医生物学 医生物学 医生物学 医生物学
* Input:	0702(void) In Disconnect 3 state, got disconnected
Output:	* Description: * State: Disconnect 3 state:
nothing	
* Returns: * nothing	*_DISC_1) *_Second timer(DLOS DISC 2)
* * * *	timer(DLOS_DISC
static void _0604(void)	Event: W
	sequence. Action: If still have data to send: Send connect string(ATDT
<pre>DloStartTimer(10 * 19); DloState = DLOS_DISC_3;</pre>	800), DLOS_DIAL state.
DISC_3);	Start 1 second timer, DL OS_DISC_4 state.
***************************************	Input:
*O700(void) In Disconnect 3 state, timed out	** Output:
* Description:  * State: Disconnect 3 state:  - Inactivity timer kicked in  * - Set 1.5 pre-escape timer(DLO	Returns: nothing
S_DISC_1)	***************************************
- Sent escape string second timer(DLOS_DISC_2)	static void _0702(void)
* second timer(DLOS_DISC_3)  * Event: We timed out.  * Action: Drop DTR and RTS for 1 second, and start hangup  * sequence over again(DLOS_DISC_2)	ProcessDisconnect();
Input: nothing	rom modem
Output: nothing	e: Disconnect 3 state:
Returns:	S_DISC_1) - Inaccivity cimer Kicked in - Set 1.5 pre-escape timer(DLO - S_DISC_1) - Sent escape string w/2
static void _0700(void)	<pre>second timer(DLOS_DISC_2) second timer(DLOS_DISC_3)</pre>
	* Event: We've received an OK response from sending hangup sequen ce. * Action: If still have data to send:
alControl(AIOPortHandle, AIO_EXTERNAL_CONTROL, (AIO_EXTCTRL_DTR   AIO_EXTCTRL_RTS));	Send connect string(ATDT 1800), DLOS_DIAL state.

hu Jui 17 14;46:11 1997 dlo.c	Page 37   Thu luit 1446 11 1997   dlo.c
Start 1 second tin	DloState = DLOS_IDLE;
* Input: nothing	Scacemacnine(UDOE_SEND); }
* Output:	static _statefn statetable[DLOENUM] {DLOSNUM] ==
Returns:	1) (2) (3) (4) (5) (6) (7) IT DIAL REDL CONN DIS1 DIS2 DIS3 D
	0, _0100, _0200, _0300, _
_0704(void)	0, _0201, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,
ProcessDisconnect();	( 0, _0104, 0, _0304, 0, _0, _0604, _0704, 0 ), // (4) RSP ( 0, _0, _0205, 0, _0, _0, _0, _0, _0, _0, _0, _0, _0,
/*************************************	0, _0207, 0, 0, 0, 0, 0, 0, 0, 1, // (7) 0,0208, 0, 0, 0, 0, 0, 0, 0, // (8)
	** The State Machine Driver *
ctivity timer ki	static void StateMachine (int event)
Set 1.5 pre-escape timer	TRACE_STATE char traceStr[20];
. Sent escape string imer(DLOS_DISC_2)	Nwsprinti(tracestr, MSG("-*d*d", 610), DioState, event); fputs(tracestr, stdout);
second timer(DLOS_DISC_3)	<pre>#endit if (statetable[event][DloState]) .</pre>
<pre>4, set 1 second timer(DLOS_DISC_4) 4, set 1 second timer(DLOS_DISC_4) 5</pre>	(*statetable[event][DloState]) (); )
* Input:	*
* Output:	<pre>blosend(BYTE *Dutter,     int size,     int timeout)</pre>
* Returns: nothing	.* Description: This routine is called to send data out the modem. If we're alre
**************************************	ady connected send it. Otherwise store the message and return. The state machine will send the data after it has connected.
, ·	
= DLO_CONN_IDLE;	
	Output: nothing
InetStateChange(DLOS_IDLE); ) else	Returns: nothing
	int DloSend( LPSTR buffer, int size, int timeout)
   DloIInactivityTimer = DloC	int i; LONG *maxBufferSize, *xmitCount;
· · · · · · · · · · · · · · · · · · ·	

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	else	4
	xmitBuffer = DloIXmitBuffer; xmitCount = &DloIXmitCount	tic void DloStopPacketLifeTimer( void )
······································	38(1, 0, 1);	DloPacketLifeTimer = 0;
	if (*xmitCount)	/*************************************
	if (DebugFlag)	DloStartTimer(LONG ticks)
2) ? 3	<pre>f printf(MSG("xmit %d bytes:\n", 486), "xmitCount); HexAscilDump(xmitBuffer,</pre>	Description:  This routine is called to set the value of the state machine timer.  Er.  DloMain periodically decrements this timer and set the TIMEOUT  event when it hits zero.
	<pre>SendAIOData(xmitBuffer, *xmitCount);     *xmitCount = 0; )</pre>	Input: to wait
*	***************************************	Output:
* * *	DloStartPacketLifeTimer(void)	Returns:
* *		****
* * * *	This timer is set to the configured packet timer(120 seconds by default) each time data is added via DloSend.  DloMain will periodically decrement the timer and clear the data hifter when it reaches sero.	static void DloStartTimer( LONG ticks ) {
* *	Input:	
* * *	nothing :	<pre>char traceStr[20]; NWsprintf(traceStr, MSG("*%d", 611), DloTimer); fputs(traceStr, stdout);</pre>
* *	nothing	
	Returns: nothing	//static void DloStopTimer( void )
# * * * * * * * * * * * * * * * * * * *	<pre>void DloStartPacketLifeTimer( void )</pre>	// DloTimer = 0; // )
	DloPacketLifeTimer = (DloCfg.packet_lifetime * DloCfg.packet_lifetime * 19 : MIN_TIMER	/*************************************
* * * * *	**************************************	Description: The routine sends the data pointed to by data to the modem.
	Description: The routine is called to stop the packet life timer.	Input:  data - data to send - size of data
	Input: nothing	Output:
	Output: nothing	Returns:
. *	Returns:	

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· 在水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水水	char portOwner[130];
void SendAIOData(BYTE *data, LONG length)	portinfo.returnLength = sizeof (AlOPORTINFO);
LONG count; int bufferSpace;	<pre>ccode = AIGGetFirstPortInfo(-1, -1, -1, &amp;portSearch, &amp;portInfo,</pre>
BYTE *ptr; WORD state; LONG bytesWritten;	<pre>if (ccode)     return (-1);</pre>
ptr = data; hila (ntr < (data + length))	while (!ccode)
AIOWriteStatu bufferSpace =	<pre>if (portInfo.portNumber == portChoice) {     if (portInfo.availability == AIO_AVAILABLE_FOR_ACQUIRE)</pre>
<pre>if (length &lt; bufferSpace) bufferSpace = length;</pre>	
<pre>if (bufferSpace &gt; 0) {     AlowriteData(AloPortHandle, ptr, bufferSpace, &amp;bytesWrit</pre>	recurn of
	return (-2);
else ThreadSwitchWithDelay();	) ccode = AIOGetNextPortInfo(&portSearch, &portInfo, NULL, NULL, portComer);
***************************************	return -1;
<pre>* AIOPortInfo(int portChoice,  * int *hardwareType,  * int *boardWumer,  int *portNumber)</pre>	
<ul> <li>Description:</li> <li>The routine returns the AIO information of the port passed in portchoice.</li> </ul>	Description: Initialize AIO. If it didn't initialize, AIOPortHandle will still be negative.
Input: portChoice - port to return data ab	nothing
out hardwareType - where to return hardware type * boardNumber - where to return board *her	Output: nothing Returns:
portNumber - where to return port n	nothing ************************************
• Output: hardwareType, boardNumber and portNumber filled in if successful	void InitializeAIO(void)
Returns:  1 if successful	<pre>int ccode; int hardware = AIO_HARDWARE_TYPE_WILDCARD; int port = AIO_PORT_NUMBER_WILDCARD; int board;</pre>
<pre>t portChoice, t *hardwareType, t *boardNumber, t *portNumber,</pre>	AIODRIVERLIST dvr; dvr.returnLength = sizeof(AIODRIVERLIST); if (AIOPortHandle >= 0) return;
int ccode; AIOPORTINFO portinfo; AIOPORTSEARCH portSearch;	<pre>while (AIOGetDriverList(hardware, &amp;dvr) == AIO_SUCCESS) {     AIOBOARDLIST brd;</pre>

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AIOSetWriteBufferSize(AIOPortHandle, DloCfg.async_buffer_size);
AIOGetWriteBufferSize(AIOPortHandle, &AIOWriteBufferSize);
DloPMaxBufferSize = (AIOWriteBufferSize < DLOBUFSIZE) ? AIOWriteBufferSi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DlolMaxBufferSize = (AIOWriteBufferSize < DLOBUFSIZE) ? AIOWriteBufferSi
                                 (aloPortConfig.bitRate == AIOBaudRateDefines[DloCfg.p
                                                                             && aioPortConfig.dataBits == AIO_DATA_BI
                                                                                                                      && aloPortConfig.stopBits == AIO_STOP_BI
                                                                                                                                                              && aioPortConfig.parityMode == AIO_PARIT
                                                                                                                                                                                                                             AIO_SOFTWARE_FLOW_CONTR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Routine to be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 If the DLO is already receiving a message for another process, an error is returned. Otherwise, the DLO thread waits for the previous request to be sent out to the modem, and waits for the reply. The caller must provide a routine to be called once the message is received.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Allow the DLO thread to read a message for you from the modem.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DloScheduleReceive(void (*callBack)(), int timeout, int callBackType)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Number of seconds
                                                                                                                                                                                                         ajoPortConfig.flowCtrlMode
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if the receive has been successfully scheduled
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AIOFlushBuffers(AIOPortHandle, AIO_FLUSH_READ_BUFFER);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DloScheduleReceive(void (*callBack)(), int timeout)
                                                                                                                                                                                                                                                                                                                                                                                                         AIOReleasePort(AIOPortHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                               AIOPortHandle = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DloCallBack = callBack;
DloCallBackTimeout = timeout * 19;
DloCallBackType = callBackType;
DloCallBackWait = 1;
                                                                                                                                                                                                                                                                                                0 *
                                                                                                                                                                                                                                                       OL_OFF | AIO_HARDWARE_FLOW_CONTROL_ON))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       once message is received
                                                                                                                                                                                                                                                                                                                                                                (ccode != 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                     return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            11
                                     įį
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 callBack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DloCallBack
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           timeout
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ait before giving up
Returns:
                                                             deliv_baud_index]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   : DLOBUFSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             : DLOBUFSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Output:
                                                                                                                                                                                      Y_NONE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       called
                                                                                                      TS_8
                                                                                                                                              TS_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 - se
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AIO_PARITY_NONE,
AIO_SOFTWARE_FLOW_CONTROL_OFF | AIO_HARDWARE_FLOW_CONTRO
                                                                                                                                                board = brd.board[0].boardNumber;
if (strcmp("DPCN_MODEM", brd.board[0].name) == ESUCCESS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AIOGetPortConfiguration( AIOPortHandle, &aioPortConfig,
                                                                                                      == AIO_SUCCESS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (AIOAcquirePortWithRTag(&hardware, &board, &port, &AIOAcquirePortHandle, (LONG)asyncIOTag))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lets set up a default deadman timer of 60 seconds for
                                                                                                      while (AIOGetBoardList(hardware, board, &brd)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AIO_EXTERNAL_CONTROL,
AIO_EXTCTRL_DTR | AIO_EXTCTRL_RTS))
                                     brd.returnLength = sizeof(AlOBOARDLIST);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AIO_DATA_BITS_8, AIO_STOP_BITS_1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        &aioDrvConfig);
                                                                 hardware = dvr.driver[0].hardwareType;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ccode == AIO_QUALIFIED_SUCCESS)
                                                                                       board = AIO_BOARD_NUMBER_WILDCARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AIOSetExternalControl(AIOPortHandle, AIO_SET_DEADMAN_TIMER,
                                                                                                                                                                                             goto foundBoard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (AIOSetExternalControl(AIOPortHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (AIOSetExternalControl(AIOPortHandle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AIOReleasePort(AIOPortHandle); AIOPortHandle \approx -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    AIOReleasePort (AIOPortHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AIOReleasePort (AIOPortHandle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AIO_BREAK_CONTROL,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AIO_SET_BREAK_ON))
                                                                                                                                                                                                                                                                                                                                                                                                                 -2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AIOPortHandle = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AlOPortHandle = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                 AIOPortHandle
                                                                                                                                                                                                                                                               1 -3;
                                                                                                                                                                                                                                                               AIOPortHandle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     call setup
       Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  USE_AIO_DEADMAN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4 -
                                                                                                                                                                                                                                                                                      return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ĭ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ŧ
                                                                                                                                                                                                                                                                                                                                foundBoard
                                                                                                                                                                                                                                                                                                                                                    ij
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        į£
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   [ ON)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           #endif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        :::::::
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Page 48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      古者 医水体 化甲基甲基甲基 医甲基 医甲基 医甲基 医甲基 医甲基 医尿管 医尿管 医尿管 医水体 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤坏疽
                                                                                                                   msg = (LroAsyncMsg_t *)buf_to_rx;
// extract the frame length contained in the first 2 bytes of the frame
frameLen = msg->header.length;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the modem has sent the previous request. All Slip specific characters are stripped and all Slip escape characters are converted back to ASCII. If the end of the message is hit, call the processes event routine with the message.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          This routine reads as many bytes as it can from the modem on behalf of the process that scheduled a receive thru DloScheduleReceive(). It's called by the main DLO thread as long as a call back is scheduled(DloCallBack != 0) and
                                                                                                                                                                                                                                                                                                                                                                                                slipCrc = calcorc (INITCRC, (unsigned char *) buf_to_rx, frameLen);
                                                                                                                                                                                                                                                                                                                                                   frameCrc += msg->data[frameLen - LRO_ASYNC_HDR_SIZE + 1] * 256;
                                                                                                                                                                                                                                                                               // since slipLen includes CRC
// extract the crc contained in the last 2 bytes of frameCrc = msg->data[frameLen - LRO_ASYNC_HDR_SIZE]
                                                                                                                                                                                                                                      == frameLen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           *len_to_rx = frameLen - RETURN_POINT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if(d_msg->opcode == 1 && d_msg->status == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     d_msg = (DacauResponse_t *) (msg->data);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (0 ==
                                                                                                                                                                                                                                  if ((*len_to_rx - sizeof(unsigned short))
{
    dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (DloReceive(&value, 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        putchar (value);
                                                                                                                                                                                                                                                                                                                                                                                                                        if (slipCrc == frameCrc)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (DebugFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DloCallBackRead(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 static void DloCallBackRead()
                                            DacauResponse_t *d_msg;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   status = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     nothing
                                                                                                                                                                                       frameLen &= 0x7fff;
                                                                      int status = FALSE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                value;
    Page 47 Thuilti 17 1446111 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Description:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ÷.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>...</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return status;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Returns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for(;;)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                BYTE
                                                                                                                                                                                                                                                                                                                                                                                                                                               pointer to the respons
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pointer to the total l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       withou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      changed to the real si
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CMovB(&buf_to_rx[frameLen], (BYTE *)&frameCrc, sizeof(frameCrc))
                                                                                                                                                                                                                                                                                                                                This routine validates a response from the modem, It checks the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            // CRC value contained in the frame
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length value contained in the frame CRC returned from calculation
    slipCrc = calccrc(crcVal, buf_to_rx, frameLen);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ValidExplicitPacket(BYTE *buf_to_rx, int *len_to_rx)
                                                                                                                                                                                                                                                                                                                                                                             length, checksum, opcode and status.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if ((*len_to_rx - sizeof(WORD)) == frameLen)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    int ValidPacket(BYTE *buf_to_rx, int *len_to_rx)
dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               frameLen = (msg->length) & 0x7fff;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                if (slipCrc == frameCrc)
                                                                                                                                                                                                                          ValidPacket(BYTE *buf_to_rx,
int *len_to_rx)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               TRUE if packet is valid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   msg = (LroEsPkt_t *)buf_to_rx;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return(1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   unsigned short frameCrc=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      crcval = 0xffff;
                                                                                           DlocallBackStarted = 0;
                                                                      DloCallBackEscape ≈ 0;
                                               DloCallBackIndex = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         unsigned short frameLen=0;
unsigned short slipCrc=0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LroEsPkt_t *msg;
WORD frameCrc = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                frameLen = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         slipcrc = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                             buf_to_rx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              len_to_rx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        len_to_rx
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LroAsyncMsg_t *msg;
  Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ength of the message
                                                                                                                                                                                                                                                                                                           Description:
                                                                                                                     return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return(0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ze of the message
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Output:
                                                                                                                                                                                                                                                                                                                                                                                                                            Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WORD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          t the header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         e message
                                                                                                                                                                                                                                                                                                                                                        header
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               int
{
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Page 50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DloCallBackIndex
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Main thread for modem handling.
We first initialize the modem thru AIO. We then check the modem to see if we've received anything. If we did, we gather it until we get a carriage return. Then we check against expecte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        responses. If we get a expected response, we set the appropriate event in the state machine. We then check for packet life and state machine timeouts. Otherwise, we sleep.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DloCallBackIndex
                                                                                                                                                                                                                                                                                                        if(DloCallBackIndex < 4000)
DloCallBackInfer[DloCallBackIndex++] =</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                        if (DloCallBackType == EXPLICIT_RECEIVE)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                               DloCallBack(DloCallBackBuffer +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DloCallBack(DloCallBackBuffer +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             case ESC_ESC:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DloCallBack = 0;
                                                                                                                                                                                                                                                                    DloCallBackEscape = 0;
                                   if (DloCallBackEscape)
                                                                           switch (value)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else
   dlo.c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                case ESC_END:
                                                                                                                                    value = END;
                                                                                                                                                                                            value = ESC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     RETURN_POINT + LRO_ASYNC_HDR_SIZE,
                                                                                                                                                                                                                                                                                                                                                                                                       /* We're done */
                                                                                                                                                           break;
                                                                                                                                                                                                               break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LONG DPCNextRegistrationCheck;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DloMain(void *parm)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LRO_EXPLICIT_HDR_SIZE,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            parm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Description:
F. A. J. C. L. Page 39 Thu Jar 1946 D. 1997
                                                                                                                                                                                                                                                                                                                                                                   else
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Returns:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Input:
                                                                                                                                                                                                                                                                                                                                                value;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        , 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            , 1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DlocallBackIndex = 0;
DlocallBackStarted = 0;
DlocallBackEscape = 0;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DloCallB
                                                                                                                                                                                                                                                                                                                         /* We're done. */
if (DlocallBackType == EXPLICIT_RECEIVE)
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DloCallB
                                                                                                                                                                                                                                                                      /* if it's an END character then we're done with the pac
                                                                                                                                                                                                                                                                                                                                                                                   if (ValidExplicitPacket (DloCallB
                                                                                                                                                                                                                                                                                                                                                                                                                                            DloCallBack (DloCallBackB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (ValidPacket(DloCallBackBuffe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DloCallBack (DloCallBackB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DlocallBackIndex = 0;
DlocallBackStarted = 0;
DlocallBackEscape = 0;
break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DlocallBack = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DloCallBack = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 // here we fall into the default handler and let
// it store the character for us
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (DloCallBackEscape ==
                                                                                                                                     DloCallBackStarted = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else
(
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           else
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      else
(
                                                 if (DlocallBackStarted == 0)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        uffer + RETURN_POINT + LRO_ASYNC_HDR_SIZE,
                                                                                               if (value == END)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DloCallBackEscape = 1;
                                                                                                                                                                            continue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  case ESC:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             default:
                                                                                                                                                                                                                                                                                                                                                                                                        ackBuffer, &DloCallBackIndex))
                                                                                                                                                                                                                                                                                                                                                                                                                                                               uffer + LRO_EXPLICIT_HDR_SIZE,
                                                                                                                                                                                                                                   switch (value)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                r, &DloCallBackIndex) }
 Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                             case END:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ackIndex, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ackIndex, 0);
                                                                                                                                                                                                                                                                                         ket */
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                                                                                                                                                                                                                                                                             0 #
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               )
if (key == *(double*)DloCfg.key)
DPCNextRegistrationCheck = curticks + 131072; /*
                                                                                                                                                                     CustVars* customPtr = (CustVars*) (&DIOStats->CustomVaria
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ConsolePrintf("\r\nDPCAgent: could not obtain hardware
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DIoCfg.gateway_address = 0;
StateMachine(DLOE_TIMEOUT);
DPCNextRegistrationCheck = curticks + 2185; /*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ConsolePrintf("\r\nDPCAgent: detected a bad regi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0×fffffff
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             else
DPCNextRegistrationCheck = curticks + 131072;
                                                                                                                                                                                                                                                                           "Helius, Inc.", 8)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DPCNextRegistrationCheck += 17; /* wrap */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             /* compute the Loss
if (DebugFlag == 0x98) {
   printf("\rRegCheck: %e\n", key);
   HexAsciiDump((void*)&key, sizeof(key));
                                                                                                                                                                                                                LONG rxFreg = customPtr->CustomVariable[1] / 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    key, hw, DPC_IP_Address);
HexAscilDump((void*)&key, sizeof(key));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  H
H
                                                             if (DIOStats && curticks > DPCNextRegistrationCheck)
{
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             )
if ((DPCNextRegistrationCheck & Oxfffffff))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   key *= hw + Drc___...
if (DebugFlag == 0x98) {
    printf("\rRegCheck: %e %d %08x\n",
    printf("\r hw, DPC_IP_Address)
                                                                                                                                                                                                                                                                                                                      DPCNextRegistrationCheck = (LONG)(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           RingTheBell();
if (DPCNextRegistrationCheck)
                                                                                                                                                                                                                                                      DPCSetMaxConnections((LONG*)&key);
                                                                                                                                                                                                                                                                         if (strncmp(DloCfg.base_license,
                                                                                                                                                                                                                                                                                                                                                                                                     /* get hardware serial number
                                                                                                                                                                                                                                                                                                                                         goto skipRegistrationCheck;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DPCMaxConnections
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hw = strtoul(buf, 0, 10);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   goto disableDPCAgent;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disableDPCAgent:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (AlOPortHandle >= 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                             DIOGETSN(buf);
                                                                                                      char buf[16];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       if (hw == 0)
                                                                                                                                                double key;
                                                                                                                               LONG hw
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DPC card\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      skipRegistrationCheck:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    else
 ||Page 51 ||Thu Jul 17, 14146:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              serial number of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      •
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 stration key\n");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      /* 120 minutes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   *
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              minutes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2 minutes
                                                                                                                                                                                          bleCount);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              delta = curticks + (0xfffffff - DloLastKnownTickCount);
                                                             The line of the true that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    StateMachine (DLOE_DISCONN);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0, /* write status */
&bytesRead, /* read count */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  delta = curticks - DloLastKnownTickCount;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       UpdateModemLights (count, bytesRead, DloLastDCD);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   &count, /* write count */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DloConn = DLO_CONN_PACKAGE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0, /* read status */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          StateMachine (DLOE_SEND);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DloConn = DLO_CONN_INET;
StateMachine(DLOE_SEND);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DloLastDCD = extStatus;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (curticks < DloLastKnownTickCount)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  extStatus & AIO_EXTSTA_DCD;
if (extStatus != DloLastDCD)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    count = 0;
bytesRead = 0;
if (AIOGetPortStatus(AIOPortHandle,
                                                                                                                                                                                                                                                                                                                                                          DloLastKnownTickCount = GetCurrentTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DloLastKnownTickCount = curticks;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    kextStatus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if (!extStatus)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                else if (DloIXmitCount)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               curticks = GetCurrentTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  if (DloState == DLOS_IDLE)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            if (DloPXmitCount)
                                                                                                                                                                                                                                                      *pPtrAtBegin, *pPtrAtEnd;
                                                                                                                                                                   count, bytesRead;
                                                                                                                                                                                                                                                                                                                                                                                                                                             6
                                                                                                                                                curticks, delta;
                                                                                                                                                                                                                                                                                                                                                                                                                                         delay(1000 /
                                                                                                                                                                                                                                   event, eventLen;
                                                                                                      DloMain(void *parm)
                                                                                                                                                                                                                                                                                                                                                                                                     while (!ExitingFlag)
                                                                                                                                                                                                                                                                           extStatus;
                                                                                                                                                                                          state;
                                                                                                                                                                                                                 value;
   Thu Jul 17 14:46:11 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else
                                                                                                                                                                                                                                                                                                                    = parm;
                                                                                                                                                                                                                                                                                                                    parm
                                                                                                                                                                                                                                                                           LONG
                                                                                                                                                                                      WORD
                                                                                                                                                                                                            BYTE
                                                                                                                                                                                                                                                        char
                                                                                                                                                                                                                                     'n
                                                                                                  void
```

for(;;)		break;
	<pre>if (AIOReadStatus(AIOPortHandle, &amp;count, &amp;state) break;</pre>	) DloCommandIndex = 0;
~	, &val	
	<pre>if (DebugFlag &amp;&amp; DloState != DLOS_CONN) putchar(value);</pre>	) if (delta)
	if (DloRcvCount < DLOBUFSIZE)	/* /* Check DLO state machine timer.
	DloRcvBuffer[DloRcvIndex] = value; DloRcvIndex++; if (DloRcvIndex >= DLOBUFSIZE) DloRcvIndex = 0; DloRcvBuffer[DloRcvIndex] = 0; DloRcvBuffer[DloRcvIndex] = 0;	*/ if (DloTimer) {     if (delta >= DloTimer)
	if (value != '\n' && value != '\r')	DloTimer = 0;
•	memcpy(DloCommandBuffer, DloCommandBuffe	
DLOCMDBUFSIZE - 1);	DloCommandBuffer[DLOCMDBUFSIZE - 1] = va	cisc DloTimer -= delta;
	<pre>if (DloCommandIndex &lt; DLOCMDBUFSIZE)     DloCommandIndex++;</pre>	
	) if (value  = '\r') continue;	Check racket interime cimer. This timer is initialized when data idate buffer via DioSend.
-	pPtrAtBegin = DloCommandBuffer + DLOCMDBUFSIZE -	*/ */ Title timer expires, crear the data Duiter.
-	eventLen = strlen(DloCompareString[DLOE_CONNECT]	<pre>if (DloPacketLifeTimer) ,</pre>
(	if (strncmp(pPtrAtBegin, DloCompareString[DLOE_C	if (delta >= DloPacketLifeTimer) {
×	( memcpy(ConnectBaudStr, pPtrAtBegin + eve n);	DloPacketLifeTimer = 0; if (DloConn == DLO_CONN_PACKAGE) DloPXmitCount = 0;
		DloIXmitCount = 0;
•	DloFlushReceive(); StateMachine(DLOE_CONNECT);	del
	else	
	for (event = 0; event < DLOENUM; event+	/* * Check the Receive Call Back timer.
	<pre>( if (event == DLOE_CONNECT) flag. continue;</pre>	* If it times out, call call back routine with timeout */
	eventLen = CStrLen(DloCompareStr	if (DloCallBack)
	<pre>if (eventLen == 0) continue;</pre>	i if (DloCallBackWait) {
•	pPtrAtEnd = DloCommandBuffer + D efore sta	
	if (strncmp(pPtrAtEnd, DloCompar	0 = 4) = 1
eventLen) := 0)	continue;	1
•	DloFlushReceive();	este

```
/* Read any available modem characters f
                                                                                     DloCallBackWait = 0;
DloCallBack(DloCallBackBuffer, D
                                                        /* Timeout!!! Call routine with
                                                                                                                                                                   DloCallBackTimeout ~= delta;
                                                                                                                           DloCallBack = 0;
                                                                                                                                                                                                                           DloCallBackRead();
                                                                                                                                                                                                                                                                                  )
if (AIOPortHandle >= 0)
AIOReleasePort(AIOPortHandle);
                                                                                                                                           )
else
                                                                                                                                                                                                                                                                                                                                      DPCModemPID = 0;
                                                                                                                                                                                                              or call back routine */
        Thu Jul 17 14:46:11 1997
                                                                                                                 loCallBackIndex, 1);
                                                                          timeout flag set */
```

14:46:01 1997 dpc.386 lb.	Rage T Tru In [17] 4400 01 11997		ф	dpc.386 Page 2	;e 2
page ,130 ; ************************************	0000 	***	*		
; BEGIN_MANUAL_ENTRY( History, DPC/HISTORY )	; Equates.			* * *	
	**************	***	* * * *	**********************	
This driver must be loaded after mam.nam and binearer. Written by: DPS	subttl Din page	DirecPC Specific		Structures	
Date: November: Lvs:	MLID_MAJOR_VERSION MLID_MINOR_VERSION	egu 01 egu 20	40		
History Log: version 0.0 - First demo version	TRUE equ	00			
<ul> <li>(3-15-96) Put SignalQuality a</li> <li>(4-09-96) Fixed CloseChannel can be properly reloaded.</li> </ul>	TIMESTAMP equ TIMESTAMP_BUFFER_SIZE	FALSE equ (3	(256 *	4)	
version 0.4 - (4-16-96) Added code to send turbo interr up to the ethertsm instead of DPCAGENT	INT_3 equ	int 3			
Adjusted RPacketOits e in order to build 1 C's 12 byte header to	EVENT_PROTOCOL_BIND EVENT_PROTOCOL_UNBIND	edn 34	equ 34	33	
0.6	Status Register bit	masks			
y version 1.00 - (0-11-96)  Added check to end of DriverInit for locked adapter  version 1.01 - (6-17-96)	; STAT_BUSY equ STAT_ERROR equ	01		Adapter is rxing data One or more errors listed below:	**
	STAT_RX_INT equ STAT_NO_RBD equ	04h 08h		uming,CRC,Abort,Alignment,DES interrupt ) not ready (E bit wasn't cleared	> > 5 E
$F_{req} = to command line.$	STAT_CNTL_INT equ STAT_SOUTPUT equ	10h 20h		*/ ;/* Controller Interrupt-RISC handshake*/ ;/* From CNTL Spare Output (0x800)	* * * *
1.04 -	; ; Control Register bit	masks			
Really Fi 1.05 - (6-28-96)		01h		//* RISC CPU Enable	<b>&gt;</b> :
Enhanced dpcagent.nlm		02h 04h		Rx Enable Interrupt Enable	
;	E E	101 107		per Rx Int	
version 1.07 - (7-13-96)  Stopped calling SendComplete from DriverSend  Added DriverTCRComplete to be obtained from IOCTL	CNTL_13_1N1 equ CNTL_AUTO_INC equ CNTL_MRESET equ	100h 200h		Auto Inc Message RAM Pointer Soft Reset and Clear All Registers	
	_	400h 800h		;/* 'Cause Interrupt' bit */;/* Spare Output to STAT Bit 5 (0x20) */	;;
Reduced max packet size if we couldn't hook bind event. 1.20 - 2-12-96		0000h 2000h		.3-15; IRQ selection	· /*
; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	CNTL_IRQS equ CNTL_IRQ9 equ CNTL_IRQ10 equ	4000h 6000h 8000h			
		0A000h 0C000h 0E000h			
\*************************************	; Synthesizer chip types	26.5			
; title DirecPC LAN Driver (HSM Version) subttl Structures and Equate Values page	; INVALID_TUNER SHARP PARASONIC SHARP_CUSTOM	edn 55	0 ffh 0 0h 0 8h 2 0h 2 8h	;/* not supported */	
include driver.inc subtt1 DirecPC Specific Equates	; ; Define State Numbers(informational	s(information	nal only)	1y) .	

Thu Jul 17 14:46:01 1997		dpc,386	dpc.386	Thu Jul 17 14 46 101 1997		dpc.386		Page 4
**				CRLK_DET_PWR_OFFSET	edn	01h	A THE CASE OF THE	
TINI	nbə	0,		CRLK_FC_OFFSET	eďn	08h		
SYNTH_PRGM	n da	7 7 7		CRLK_GAIN_OFFSET	eďn	40h		
ACQ_PD	n Da	: m		; SynthSerControlAddr:bits	1	write register	U La	
ENABLE_BTR	nbə	4.1						
CHECK FOR FEC LOCK	n n edn	n vo		SUNTA_MASK SCLK_MASK	edn edn	01h 02h		
SET_OTHER_MODE	nbə	<u></u>		SENA_MASK	eđn	04h		
TRACKING	eđn	ω σ		MODE_MASK	eđn	08h		
POINTING_TRACKING	n da eda	10		DEPUNC_BYPASS_MASK	n n edn	20h		
HALT	eďn	11		RESET_FEC_ACQ_MASK	nbə	40h		
; New Stuff DBS				hesel_bir_acc_mash	n ba	u08		
demo	tions			; DaAdOffsetControlAddr	· bits -	write register	ster 取	
ACQUIRE_MODE	edn	**/:	w acquisition **/	I_CHANNEL_OFFSET	nbə	01h		
HALT_MODE	eďn		* * *	CRL_ERROR_OFFSET	edn	180 180		
POINTING_MODE	nbe adn	4 ;/** Special test mode	* *	BIK_EKKOK_OFF VET	nbe	40h		
				•• ••		-		
DEFAULT_RX_FREQ equ	1330			SYNTH_LOCK_MASK	edn	01h		
BIT_OFF	nbə	00h		SWEEPING_MASK	edn edn	04h		
	:			DIR_MASK	eđn	08h		
	- write re	register 0		TINES TYPE MASK	eđn	10h		
FREQ_PWR_MASK		0E0h		TUNER_TYPE_2_MASK	n n ba	180 08h		
PHASE_PWR_MASK		07h		VENDOR_ID_MASK	nbə	0 £0h		
BIR ERR ENA MASK	מ פלות פלות	10h		;/* Frequency offsets *	,			
FREQ_PWR_OFFSET	eđn	20h		•				
PHASE_PWR_OFFSET	eđn	01h		PLUS_OFFSET	nbə	0.40		
; AfcControlAddr bits -	write	register 1		MINUS_OFFSET	edn	-40		
				OFFSET_THRESHOLD	edn	1152 ;/	;/* for SHARP type tuners */	
SWP_ENA_MASK	nbə	01h		FREQ_BASE	edn	9011		
AFC SENSE MASK	n de	10h		K REACO	n be	29622		
EXT_INT_MASK	edn	20h		NOM_COUNT_TRACK	nbə	48761		
BPSK_MASK	abə	40h		NOM_COUNT_REACQ	edn	19432		
ROM_ENA_MASK	edn	80h 02h		SYNTH_CHANNEL_SIZE	edn	3645		
SQF_FEARLENESS	500	****		SYNTH_CHANNELS_PER_STEP	n n n n n n n n n n n n n n n n n n n	40		
; BitDetControlAddr bits	s - write	register 2		SYNTH_FIRST_CHANNEL		3788		
SOFT_THRS_MASK	eďn	1Fh		BPSK	eđn	BPSK_MASK	BPSK_MASK OR ROM_ENA_MASK	
DECODER_INFC_SEL_MASK		80h			1 4 4			
SOFT_THRS_OFFSET	n n e d'u	01h			/ sanonii			
2		3 		LOWRATE	edn	0 -		
/ Agerirconcroimagr bics	e write	regiscer o		nichkale 1	nba	-		
AGC_REF_MASK		1Fh		;/** demod status states	/** 8			
AGC_SENSE_MASK FIR BYPASS MASK	edn	80h		UNLOCKED	edn	0		
SWAP_IQ_MASK		20h		LOCKED	edn	1		
AGC_REF_OFFSET	edn	01h		; : Configuration equates				
; CrlkControlAddr bits	- write r	register B		5		;		
CRIK DET PWR MASK	edn	07h		RBD_BASE_ADDR	nbə edn	0a000h 128		
CRUK_FC_MASK		38h 38h		RBD_BUFFER_SIZE	edn	1024		
CRLA_GAIN_FRASA	n Tu	,			n D			-!

. DED STATES NITE	0			ysna	Xdo	
; KBU SCACUS D.				usnd d	ec x	
FRAMING_ERR	nbe	0001h 0002h	; Framing error	ysnd	edx	
ABORT	nbə	0004h	; Abort	ysnd	parm1	
ALIGN_ERR	edn	0008h	; Alignment error	hand	parmo	
DES_ERR	nbe edn	#0100 #0000	OES ETTOT	ushq	OI ISHC MASAGA	
SOF_BIT		00401	: End of Frame	call	OutputToScreen	
OVERRUN_ERR	nbe edn	0080h	0080h ; Frame Overrun bit	lea	esp, [esp + (4 * 4)]	
EMPTY		8000h	; if reset, buffer may be used		•	
STATUS_ERROR	nba edn	FRAMING	ERR OR CRC_ERR OR ABORT OR ALIGN_ERR OR	ർod വ	edx	
מיים שיים מיים מיים מיים מיים מיים מיים	NOW -			đođ	eax	
DebugMessage	macro mas)	mask, message		DebugMessageExit:	t: endm	
local	DebugMessageExit	eExit		Constant	Caren (maen opened types care)	
1	of the state of th	1		Capacacatanaa	וומסען ווומססממן למדוווען למדוווין	
ກ ສຸດ ກ	DebugMessageExit	BXit		local	DebugMessageExit	
yend	eax			test	DebugMask, mask	
usnd	6CX			J.e	DebugmessageEX1 C	
usnd	eax			dsna	өах	
ysnd	offset message	age		ysnd	ecx	
usnd 1	DPCScreen	;		usnd	edx	
cail lea	esp, [esp + (2	(2 * 4)]		ysnd	parm2	
	•			dsug dsug	parmi	
dod COU	e e a x			usnd d	offset message	
ದೆಂದ	eax			usnd	DPCScreen	
DebugMessageExit: e	lt: endm			call lea	Output1osofreen esp, [esp + (5 * 4)]	
DebugMessage1	macro mask,	<pre>c, message, parm0</pre>	armO	dod	edx	
,				dod	ecx	
local	DebugMessageExit	eExit		pop e: DebugMessageExit:	eax t:	
test	DebugMask, 1	nask		,	endm	
je	DebugMessageExit	eExit		DebugMessage4	macro mask, message, parm0, parm1, parm2, parm3	
hsnd	eax					
hand	ecx			local	DebugMessageExit	
ysnd	edx			11 60 11	DebugMask, mask	
<b>usnd</b>	parm0			je	DebugMessageExit	
usnd	offset message	age		ار ا		
push	DPCScreen	\$		usnd	₩. ₩.	
lea	esp, [esp + (3	(3 * 4)]		4snd	edx	
				ę.	מי פיני	
dod	edx			righd	ביין אינין איני	
ದೆಂದೆ	X X			usnd	parmi	
DebugMessageExit:	ב ב ב ז			usnd !	parmo	
	endm			usnd ushd	offset message DPCscreen	
DebugMessage2	macro mas)	mask, message, parm0, parm1	arm0, parm1	call	OutputToScreen	
[450]	Debrases	1		ช ม -		
18001	Paragraphic and a second	) 		dod	ed×	
100	Darley - Act - Act			בכב	×	

Componence   Com	DebugMessageExit: endm DebugMessage5 macro local DebugMes je DebugMes je DebugMes je DebugMes push eax push eax push eax push parm4 push parm2 push parm1 push parm2 push parm1 push parm1 push parm2 push parm1 push parm1 push parm2 push parm1 push parm2 push parm1 push parm2 push parm1 push parm2 push parm1 push parm2 push parm3 push parm2 push parm3 push push parm3 push push parm3 push push parm3 push push push push push push push push	ssage, parm0	स्रह	0 8 00 13 50 1 16 0 0	e g g
	macro DebugMas DebugMas DebugMas Cax	ssage, parm0, parm1, parm2, parm3, parm4	al, 61h al, 61h al, 61h al, 61h eax endm struc ze ends oNLY struc		Pointer to buffer Size of buffer or with DataSize or With DataSize Channel ID ESR to call when is received.
15   15   15   15   15   15   15   15	macro DebugMas DebugMas DebugMas DebugMas DebugMas Deax Deax Deax Deax Deax Deax Deax Deax	ssage, parm0, parm1, parm2, parm3, parm4 4)] ssage, parm0, parm1, parm2, parm3, parm5	al, 61m eax endm struc ze ends ONLY		Pointer to buffer Size of buffer or with DataSize Channel ID ESR to call when is received.
Delige   D	, a	4)] ssage, parm0, parm1, parm2, parm3, parm5	endm struc ze ends ONLY struc		Pointer to buffer Size of buffer or with DataSize Or with Chanel ID ESR to call when is received.
Decision		4)] ssage, parm0, parm1, parm2, parm3, parm5	struc zeends oNLY struc		Pointer to buffer Size of buffer or with DataSize or with ESK to call when is received.
Deficio   Defi		4)] ssage, parm0, parm1, parm2, parm3, parm5	ze ends nel		Pointer to buffer Size of buffer or with DataSize Channel ID ESR to call when is received.
MAX_APPL_BOP   MAY_APPL_BOP   MAY_	55 55555 <del>5</del>	4)] ssage, parm0, parm1, parm2, parm3, parm5	ends nel ONLY struc		or with DataSize Channel ID ESR to call when is received.
MAX_MAPPL_MBD  equ  3000000000000000000000000000000000000		4)] ssage, parm0, parm1, parm2, parm3, parm5	nel ONLY struc		or with DataSize Channel ID ESR to call when is received.
NAX_CHAN   SQUE_CHAN   SQUE_	:	4)] ssage, parm0, parm1, parm2, parm3, parm5	nel ONLY struc		Channel ID ESR to call when is received.
### 10	 	4)] ssage, parm0, parm1, parm2, parm3, parm5	nel ONLY struc		Channel ID ESR to call when is received.
WWX_DODR   equ   16	:ccc-	4)] ssage, parm0, parm1, parm2, parm3, parm5	nel ONLY struc		Channel ID ESR to call when is received.
NAX_ADDR   EQUITION	ee-	4)] ssage, parm0, parm1, parm2, parm3, parm5	nel ONLY struc		Channel ID ESR to call when is received.
Pacchannel   Gd   G   Grannel	= <del></del>	4)] ssage, parm0, parm1, parm2, parm3, parm5	nnel ONLY struc		Channel ID ESR to call when is received.
Pachame   According   Pachame   According   Pachame   According   Pachame   According   Pachame   Pachame   According   Pachame   Pach		4)] ssage, parm0, parm1, parm2, parm3, parm5	nnel _ONLY struc		Channel ID ESR to call when is received.
PAMESER   December		ssage, parm0, parm1, parm2, parm3, parm4, parm5	ONLY		ESR to call when is received.
RA_CNTIC ends		ssage, parm0, parm1, parm2, parm3, parm4, parm5	ONLY struc		9
RX_FLAG_STATS_ONLY   equ   1	xwe dod	ssage, parm0, parm1, parm2, parm3, parm4, parm5	ONLY		
Channel Config Struc	DebugmessageExic:	ssage, parmů, parmí, parm2, parm3, parm4, parm5			
CEGCHANNEL   Deligner   Deligne	macro				
CGGESK		iageExit	CfgChannel dd		; Channel ID
CEGARdiress   CEGARdiress   CEGARdiress   CEGARdiress   CEGARdiress   CEGARDIRES		c, mask	CfgESR CfgNumAddresses dd		; max # of buffers used ; Number of filter addrs
CfgGroupKey db		ageExit		dnp 9	<pre>/ that is to follow // list of addra</pre>
State   Stat				dnp 8	Group keys
FilterStruct struc   FilterAddress   db   6 dup (0)		C	ends		
PilterStruct struct s	eax,		,		
parm4	al,				
FilterChannel	al,		FilterAddress	dnp 9	
PilterCmdblkIndex	eax		FilterChannel	dp 2 dup dd 0	
FilterTotalCount dd 0  i, parml  filterSequout dd 0  filterSequout dd 0  filterSequout dd 0  filterStruct ends  x  EblkStruct ends  EblkStruct struc  EblkStruct gw 0  Sp, [esp + (8 * 4)]  EblkAddrass db 6 dup (0)  EblkStruct ends  x  EblkStruct ends  cean companies and companies an	eax		FilterCmdblkIndex	dd	, RISC SW cmd blk index
FilterStruct ends	al,		FilterTotalCount	ָם פּ	. # of frames rxed
parm()			FilterSeqNum	g g	, # or out sed traine , next sed expected
parm0					
EblkStruct struc					
EDIKCMd   Gw 0					
sp, [esp + (8 * 4)]         EblkPortID         dw 0           3p, [esp + (8 * 4)]         EblkNotUsed         dw 0           3x         EblkAddress         db 6 dup (0)           3x         EblkGroupKey         db 8 dup (0)           3x         EblkStruct         ends	DPCScreen OutputToSc	_	Eb1kCmd		•
Splitter	esp, (esp	*	EblkPortID		•
EblkGroupKey			EblkAddress	dnp 9	
EblkStruct ends			EblkGroupKey EblkElemKey	dup 8	
ndm EblkStruct	DebugMessageExit:	-		i.	
	endm	<u> </u>			

Thu Jul 17 14:46:01 1997	!	ס	dpc.386 [. [.] [.] [.] [.] [.] [.] [.] [.] [.]	Thu Juli 7.14 #6:01:1997		dpc.386		Page 10
******	*	*********	****		dd	~	Nom Low Addr = base + 30	
; ; ;				IOCountNomHighAddr	<u> </u>		Nom High Ad	•
; DirectC Structures.			. 4		gg gg	O Sween	Deica Addr ≈ Dase + Rate Addr ≈ base + 3	
*****	***	******	************************************		ld.		Control Addr = base + 38	
•••				IOSynthSerControlAddr d IOSpareIOControlAddr d	ಕ್ಷಿ		= base + = base + 4	2 0
, MIPS Code Statistics				ddr	dd dd	O ' DA O	DA Offset Control Addr = base + 44 Unit ID Addr = base + 46	4
NOTE: Only thi	th, and	fifth	items are currently used					
StatsBlk struc rxenables	dd	0	; number of times the RSW has gotten a r		ផ្ទុំផ្ទ	INVALID_TONER		
×			1 1 1	ReacgDeltaCount d	ಗ್ಗ	<b>℃</b> €		
rxdisables	dd	0	enable cmu. number of rx disable commands.		Z Z	<i>(</i>		
framesAccepted	gg	00	es accepted. ected due to no fi	SqfCheckStepSize d	dd dd	<i>د</i> . د.		
lter match.	: q		To Carlo Appropriate the second secon		Jd.	<i>د</i> -		
zeroAddrframes	aa	>	; number of frames rejected due to an ; address of all zeroes or RBD shortage		dd	~		
disabledRejed	qq	0	number of frames which had to be rejec	PicUnMask d	dd dd	C+ C+		
fullBufsReje	dd	0	, number of frames rejected because the					
ffers (RBDS).				<b>o</b>	dđ	HALT		
StatsBlk ends				ViterbiOnly d	ಕ್ಷಿಕ	o FALSE		
***************************************	***************************************	****	· 植红斑 计水平分割 医生物 医水管 医水管 医水管 医水管 医毛膜 医毛膜	יסי	च पुर	HALT_MODE		
				,	i i	10		
; MulticastTableStructure	ė.		* *		, d	0 4 6 6		
****	* * * *	* * * *	**************************************	ChannelNumber d	g p	7 ALVE		
	,			NextState   ModulationScheme	n d	O B PSK		
	20726				ğ,	. 0		
MulticastAddress EntryUsed		දු දු	(0) dnb 9	υ L	dd dd	00		
מיויים	e nda			PointingFlag DemodStatus	ಕ್ಷ ಕ್ಷ	00		
	25				ğ.	. 0		
*********	* * * * * * *	* * * * *	<ul><li>○ 在本本者本本者本本者本者者本者者者本者者者本者</li><li>○ 在本本者</li><li>○ 在本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本本</li></ul>	ount	D Z	1 F81.98		
; Start of the Adapter D	Data Sp	Space stru	structure for DirecPC. *		g qq	0 0		
******	* * *	* * * * * *	\ + + + + + + + + + + + + + + + + + + +	SqfWait d	g g	00		
; DriverAdapterDataSpace	struc			TimerTag	o d	00		
FirstTimeInit	qq		; Start out in driver init.		dd d	, 0		-,-
	dd	o		ProtocolBindID dd 0	o dd	0		,
υ	dd	0	Auto Inc port = base +		:	ć		
IOStatus	ם קס	0 0	; Status port = base + 4	TiCount	g g	<b>0</b> 0		
tr	dd	0	Msg Ram Ptr = base + 8	ע	dd	0		
IOMsgRam	dd dd	00	; Msg Ram * base + 10 ; RDB buf Len * base + 12	IntStatus	Ĭď.	0		
	gg	0	RDB Num = base + 14	pterRBD	dd	0		-
	g g	00		CurrentECB	dđ	0		
IOBitDetControlAddr	gg g	00	Bit Det Control Addr = base	RxControl	ф	(size RX_CNTL	* MAX_CHAN) dup (0)	
	g g	00	+ 24	Filter	<del>a</del>	(size FilterStruct	truct * MAX_ADDR) dup (0)	
IOCthAddr	g g	~ c	; Cth Addr = base + 26 . Cate Count High Addr = base + 28	-   ED1k	qp qp	size EblkStruct	ct dup (0)	
ווווייייייייייייייייייייייייייייייייי	3	,	ì				•	Τ.

4,4,

EblkBusyFlags db	:	dpc,386		TOTAL CONTROL OF TARGET	Page 11 Thu Jul 17 [4:46:01 1997		dpc,386 Page 12
		32 dup (0)			AvelargeRx		dd 0
BufferCount dd WatchBufferCount dd MatchDufferCount dd MarchOldboiograd		000			MipsRxEnables s the RSW has gotten	ss 1 a rx	dd 0 ; number of time
		(size StatsBlk)	() dnp ()		MipsRxdisables		<pre>; enable cmd.</pre>
ne e		0 0			MipsFramesAccepted MipsNoFilterMatch	pp 1	0 ; total number of frames accepted. dd 0 ; number of frames rejected due
OEnableValue dd		. 0			to no iliter match. MipsZeroAddrFrames	pp	rames r
***	* * * *	**********	* * * * * * * * *	****	MipsDisabledRejed be rejected while ze	ָּה הפטיק מיי	0
<b>v</b>					dipsFullBufsReje the	; ; ;	dd 0 ; number of frames rejected beca
	, , , , , , , , , , , , , , , , , , ,	* * * *	* * * * * * * * * * * * *	***		•	adapter was close to running out of buffers (RBDS
Scaristicsversion GenericVariableCount dw / 4	, •	03, 00 (RxAbortFrameAlignment	lignment +	4 - TotalTxPacketCount)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	7	
NotSupportedMask0 dd	-	11111011111001000000000000000000000000111	0000000000	00000011b	Spir to spirot to so a	3	otisec DiagnosticsStrings
TotalTxPacketCount	٠٥	ಡೆಡ 0		- (Used	TotalLargeRx	ğ	0
TotalRxPacketCount NoECBAvailableCount PacketTxTooRigCount		م م م م		- (Used by MSM) - (Used by MSM)	AlignDEndVA (?) ; Align 4 for	db r MOVSD	((4 - offset (AlignDEndVA and 3)) and 3) + 4
PacketTxTooSmallCount PacketExOverflowCount				not used	DriverAdapterDataSpace	ce ends	
PacketRxTooBigCount				1 - not	IORbdBase	eďn	IOStatus
PacketTxMiscErrorCoun		dd dd		- not	ioruningLowAddr IoruningHighAddr	nbə edn	IOCountNomLowAddr IOCountNomHighAddr
FacketkxMiscErrorCount RetryTxCount				- 0	IORelSqfAddr IOMaxSqfAddr	edn	IOCountDeltaAddr IOSweenRafeAddr
ChecksumErrorCount HardwareRxMismatchCount				0 - Used 1 - (Used	IostatusAddr	nbə	IODaAdoffsetControlAddr
TotalTxOKByteCountLow TotalTxOKByteCountHigh		dd dd		0 - Used by h		OSDATA Data	Segment
TotalRxOKByteCountLow				- Used by	page assume cs: (	OSCODE, ds:	: OSDATA, es: OSDATA, ss: OSDATA
TotalRxOKByteCountHigh TotalGroupAddrTxCount	<b>-</b>	ಡೆಡ ಡೆಡೆ		- Used - Used	***********	*****	****************
TotalGroupAddrRxCount AdapterResetCount AdapterOprTimeStamp		ರೆರೆ ರೆರೆ ರೆರೆ		র র হ'	; ; The following varie;	variables are	common to the entire driver. *
QDepth			•	- Used by	***********	*******	***************************
TxOKSingleCollision TxOKMultipleCollisions	dd			- Used by driver	; OSDATA segment rw pv	public 'DATA	`d
TXOKButDeferred			•	not used	HSMSPEC	qp	'HSM_SPEC_VERSION: 3.2',0
TXAbortExcessCollisi	ons			- Used by	***	*******	
<pre>'XAbortCarrierSense TXAbortExDeferral RXAbortFrameAlignment</pre>	ad ad ad	- - -	•• ••	0 - Used by driver 0 - not used 0 - Used by driver	; Statistic Diagnostic	le Strings.	
natom(VariableCount	7		(Minabull Bufabada	1000	***************************************	* * * * * * * * * * * * * * * * * * * *	
4	3			י ביאומילרמייה בי	9555109	, aw	(Endofatrings-DiagnosticsStrings)
SignalQuality from adapter			dd 0	; Signal Quality	db 'Sigr db 'Rx F	Signal Quality Rx Frequency',	0,0
RxFreq ncy			dđ.	; Recieve Freque	db 'Larg db 'Numb db 'Ave	Largest Received 1 Number of Receive Ave size of Receive	Largest Received IP Frame', 0 Number of Receive IP Frames over 400', 0 Ave size of Receive IP Frames over 400', 0
LargestRx NumberLargeRx	ය අපි	00	,			Rx enab	commands', 0

dpc.386	Pagell3 Thuyuhifilatel	dpc.386	Page 14
db 'Mips Rx disable commands', 0 db 'Mips frames accepted', 0 db 'Mips frames rejected from no filter match', 0 db 'Mips frames rejected from acero address', 0 db 'Mips frames rejected from adapter disabled', 0 db 'Mips frames rejected from buffer pool', 0	offsset offsset offsset in sect	GetsN Signfext AddAddress DeleteAddress RegisterAgentSendRoutine BadParametersExit	
0,0 db		sterAgent rnTCBComple	
EndofStrings equ \$	LastManagementFunction equ	((\$ - Mana	`
\*************************************		******************	*****
; briver Parameter Block to pass to MSM.	; Copy of Virtual Adapter Data ; initialization,	Data area to be copied at	* *
	****	*****************	*
, align 4 DriverParameterBlock label dword	; DriverAdapterDataSpaceTemplate	late DriverAdapterDataSpace	^ V
dd dd	DriverConfigTemplate db	'HardwareDriverMLID	(ebx).MLIDCFG_
g p		; [ebx]	
DriverBoardPointer dd $0$ DriverAdapterPointe $oldsymbol{r}$	db 12 (0ffb)	; [ebx] ; [ext]	.MLIDCFG_MinorVersi
tePtr dd	100100		k].MLIDModeFlags
fer dd	dw 0000	(ebx) ; (ebx) ;	<pre>x].MLIDBoardNumber k].MLIDBoardInstance</pre>
DriverNumKeywords dd 2   DriverKeywordText dd DDCKeywordText	dd 00000000		MLIDMaximumSize
dd		[xga] !	
DriverProcessKeywordTab dd DPCProcessKeywordTab   DriverAdanterDateSpaceSize dd STZE DriverAdanterDateSpace	dd 00000000	•	
gg qq		iot chaine (ebx) (ebx) (ebx)	
DriverStatisticsTable dd StatisticsVersion   DriverEndOfChainFlag dd 0	0000 QW	; (ebx);	K].MLIDReservedO
יסי קיס		(xqa)	
elow16Meg dd	da 00000000 dw 10	(ebx)	().MLIDRouteHandler
dd 0	0000	• ••	
	db 8 dup (00h) db MLID MAJOR VERSION	) (ebx)	<pre>. MLIDReserved :</pre>
astChangePtr dd offset		NO FOR CALL	
r dd	TVersion MLID_MINOR_VERSION	VERSION	; [ebx].MLIDMino
offset	dw 0010b	(epx)	
0 pp		(xga) :	().MLIDLink
	dw 0000	; [ebx]	c).MLIDSharingFlags
angePtr dd 0	dw 02c0h, 40h,	0,0	d).MLIDIOPortsAndLengths
dd offset DriverEnableInter		; [ebx] ; [ebx] ; [ebx]	().MLIDMemoryDecode()
DriverDisableInterruptPtr dd offset DriverDisableInterrupt	dd 00000000	; (ebx)	().MLIDMemoryDecode1
DriverParameterBlockSize equ \$ - DriverParameterBlock		(ebx)	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	db 000000000	(ebx)	(), MLIDDMAUsage
; Driver Management Dispatch Jump Table.	dd 00000000 dd 00000000	(ebx)	
化分泌 化环环 经实现股份 医克克特 医克克特 医克克特氏征 医克克特氏病 医克格特氏氏征 医克克特氏病 医克克特氏病 医克克特氏病 医克克特氏征 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器 计记录器		(ebx)	
		; (ebx)	.].MLIDLinearMemory0 .].MLIDLinearMemory1
JumpTable offset	(0) dnp 9 qp	/ (ebx) / (ebx)	:).MLIDChannelNumber
dd offset CloseChannel	Message DriverNICShortName,	ortName, 'DPC'	
	•		-

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**********************	***	*************	****	***************************************	* * * * * *	**************************************	
Parameters req	by Parse	OriverParameters,	4	include mips,dat			-
); was a second of the control of th	* * *	-DEBUG' -DebugText -DebugText -FreqText	Break into debugger keyword.  OR T_STRING  Set RxFreq  OR T_NUMBER		* * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * * *	
	0 0 0 0 0 0 0 0 0 0	10000	max max	CR LF	nbe nbe	13	
DPCKeywordText dd DPCTextLen	DebugText dd F dd D dd F	; First Ke reqText ; ebugTextLen ; reqTextLen ;	yyword, Second Keyword, First Keywords length, Second Keywords length,	e error messa or messages.	4 * * * * * * * * * * * * * * * * * * *	* * * * * * * * * * * * * * * * * * *	
DPCProcessKeywordTab	ರ ರ ರ		First Keyword routine.  Second Keyword routine.	mitTimeoutM ', CR, LF, tCompleteEr	අ අ	66, 00, 'The cable might be disconnected on the 200, 00, "The board's DWA did not complete the t	o 3
GlobalRxFreq ; IOPortOData	ರ ಧ	DEFAULT_RX_FREQ 12, 100h, 140h, 180	0h	rite.", CR, LF, 0 ; ;**********************************	**	***************************************	
Interrupt0Data	ਹ ਹ ਹ ਹ ਹ ਹ	200h, 240h, 280h, 2c0h 300h, 340h, 380h, 3c0h 8, 3, 4, 5, 9, 10, 11, 1	2c0h 3c0h 11, 12, 15	; InitNIC error message	strings	* * *	
AdapterOptions Adapter erruptOData>	roptionD	AdapterOptionDefinitionStructure	<,lOPortOData,,,,,,Int	FrorAllocatingRTagMessage	ge	A resource ta	٠.
SearchTbl	ರ ರ ಭ ರ ರ	MINUS_OFFSET ZERO_OFFSET PLUS_OFFSET	- <u>2</u>	tInSlotMessage ailMessage ion command.', CR,	668 F. 0	cannot be found.', CR, LF, O did not respond to the initi	0 71
StateTbl	\$	offset InitState offset SynthPrgmState offset AcqPDDelayState offset AcqPDState offset EnableBTRState offset StartSearchPorFECState offset GtothFrmWodstate offset TrackingState offset ProhingState offset PointingAcquisitionSta offset PointingTrackingState offset HaltState	CState tate e ionState State	, 0 ,	db db db 208, 00,	73, 00, 'That is non functional. Try using another of the board could not be configured.', C of 'Unable to set ISR for test ISR.', CR, attribut is non functional. Try using another of the board could be configured.', C of the board could not be configured.', C of the board could not be configured.', C of the board could not be configured.''	CR CR
MajorVer MinorVer Year Month Gay	ים שם שם שם יים שם שם שם	00000	. AUE	I/O port.'ed ed e I/O port	GR, LF,	200 201, 0	n 0 m
DPCScreen	י טינ י טיני	, 0	I C	LockedAdapterMsg n system and reboot.', C	db CR, LF, C	202, $00$ , 'Unable to start the adapter. Power dow $0$	<u>ж</u>
**************************************	* * * * * * * * * * * * * * * * * * * *	***	/* ** ** ** ** ** ** ** ** ** ** ** ** *	Timerbesc EventRTagMessage InterruptRTagMessage	අද අදා අදා	"DPC Timer", 0 "DPC Events", 0 "DPC Test ISR", 0	
Contains array MipsCode and dword MipsCodeSize.	ode and c	Word MipsCodeSize,		LastDebugMessage	dđ		

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LastSignalStrength	dd		SEND_STACK_SIZE	edn 4000h		
SignalStrengthMsg HaltStateMsg PointingTrackStateMsg	අ අ අ	0	SendStackEnd SendStackBegin	ಡೆದ ರೆಡೆ 0 ಡೆಡೆ	SEND_STACK_SIZE dup (0).	
PointingAcqStateMsg TrackingStateMsg SetOtherModeStateMsg CheckforFECT.ockStateMsg	8885	CR, LF, 0	public D DPCRxFrame	DPCRxFrame dd 0		
ChartsearchForFECMsg EnableBTRMsg AcqPDMsg AcqPDDslavMsg		٠ پ پ	if TIMESTAMP public DPCTB db	DPCTB TIMESTAMP_BUFFER_SIZE	SIZE dup (0)	
SynthPrgmWsg InitStateTrackWsg 0	අඅ ස	R, LF, 0  y Enabled", CR, LF,	timestamp_begin timestamp_end timestamp_index	dd 0 dd dd		
, 0 ChannelNumberMsg SharpTunerMsg	्र कु	0 LF, 0				
PanasonicTunerMsg SharpCustomTunerMsg ScreenResourceName	දි දි දි	"Panasonic Tuner was detected", CR, LF, 0 "Sharp Custom Tuner was detected", CR, LF, 0 "DPC Screen", 0	OSDATA ends subttl	DriverChangeMulticast	ulticast	
ScreenName DebugRBDReceived	සි සි		ų	er public 'CODE		<del></del>
DebugRBDSize DebugScreenHeader	육 육 숙	"Buffer Size = \$d", CR, LF, 0 "\$2 v\$2u.\$2u, \$2u, \$2u/\$0u/\$u, CR, LF, LF, 0 "TCD.Adanter DED cet F. Ad" CP TE 0	DebugRoutine	proc		
FilterAddrwsg	g q	.2x %2.2	mov	DebugMask, DEBUG_MASK	MASK	
LF, 0	qр	ISR:Error: We maxed Filter RBDs, max = %d, we	DebugRoutine	dpuə		
FilterRBDLen e = %d, headers = %d",	LF,	Fotal Reported siz	FreqRoutine	proc		
FilterCopy ent %d", CR, LF, 0 FilterNone	g f	" ISR:Copying from roa element %a co filter elem " ISR:Error. no Filter for %02.2x %02.2x %02.2x	noc rec	GlobalRxFreq, eax	×ı	
	LF,	set to ad.". CR. L		dpuə		
rrMsg			**************************************	**************************************	**************************************	
Aborchag AlignErrMag OverrunErrMag		" ALIGNIERR", O	Name:	14		
DESETTMSG CRCETTMSG NOECBMSG	육 육 육	" DES_ERR", 0 " CRC_ERR", 0 " ISR Error: No ECB buffers."	; Description:	This routine will commands called by	11 handle any DirecPC specific by a remote nlm.	
ReturnMsg AddAddrMsg DebugInitOK		υ	; ; On Entry:			
I PName NLMName	ද ද ද	ä			aSpac	
; If command line contains		"-DEBUG", DebugMask will be set to DEBUG_MASK		EBP @ Adapter ESI @ ECB EDI N/A	er Data Space	
DEBUG_ISR DEBUG_ISR_ALL DEBUG_IOCTL	nbə nbə	0001h 0002h 0004h	***	e: Inter	ots are in any state.	
DEBUG_MASK	edn	DEBUG_ISR OR DEBUG_ISR_ALL	; On Return: ;	0 1f Prese Destr	successtul srved oyed	
DebugMask	đđ	0		EDX Destroyed EBP Preserved ESI Destroyed	papa	
		_			•	_

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dpc.386	gen has half Page I of Thurst in 17.114:46.01 1997	
; EDI Destroyed		
Flags:		
Note: Interrupts preserved.	•	Flags:
; Remarks: This routine is called by the ethernet media module.		Note: Interrupts preserved.
,	Remarks:	This routine is called by DriverManagement. It is called at process time.
; ETHERTSM\ETHERTSMUDdateMulticast	; See Also:	
; END_MANUAL_ENTRY	; END_MANUAL_ENTRY	TTRY
/*************************************	****	\*************************************
, DriverManagement proc	public	SignText
	2 T BILL & X	proc
; First reset Multicast Address Registers.	Nom	esi, [esi].RPacketOffset
	mov	edi, [esi+0] edi, edi
dword ptr [esi].RProtocolID+0, 'TCRD' ; ID+0	e D	
jne BadParametersExit ; Jump if not cmp word ptr [early coll p.t. [early c	Стр	dword ptr (esi+8), 0 SignTextError
xx ecx. [esil.RlogicalID ;	cli mov	edx. [ebp].IOMscRamPtr
ecx, BadPa	mov	eax, 18800h / 2 dx, ax
•	VOM rda	
BadParametersExit: mov eax, BadParameters	mov	
ret	SendStringLoop:	
DriverManagement endp subttl SignText page	out	dx, ax edi, 2 ecx
\	jne sti	SendStringLoop
; BEGIN_MANUAL_ENTRY( SignText, DPC/API/SIGNTXT )	c11	
; Name: SignText	S S S S S S S S S S S S S S S S S S S	edx, (EDP)Chasynamic.r Ax, (18100h + (14 * size EblkStruct) + 4) / 2
; Description: This routine is called by DriverManagement to ; sign the text passed in.	2 Now	edx, [ebp].IOMsgRam
	mov	eax, [esi + 4] dx, ax
	Vom	edx, [ebp].IOMsgRamPtr pax. (18100h + (14 * size EhlkGtruct)) / 2
	out	X
EDI Note:	mov mov out	edx, {ebp}.IOMsgRam eax, 10h dx, ax
; On Return: EAX Destroyed	sti	
	NOM MOV	ecx, 10 edi, 10h
	-	•

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WaitForCommandDone:		, On Entry:	N/A Frame Data 9	
hsug	ecx eax, [ebp].TimerTag		N/A N/A	
nsud hsud	eax 2	•• ••		
cait	Delaynysell esp, (2 * 4)	•••	N/A	
dod.	×oə		Note: Interrupts are in any state.	
cli mov mov	edx, {ebp},IOMsgRamPtr eax, (18100h + (14 * size EblkStruct)) / 2 dx, ax	; On Return:		
mov in	edx, {ebp}.IOMsgRam ax, dx		ESI Preserved ESI Preserved EDI Preserved	
cmp	ax, 0eeh SignTextError		Flags:	
cmp	ax, 11h ReadyToGetSignature	; ; Remarks:		
dec	ecx WaitForCommandDone	; ; See Also:	It is called at process time.	
ReadyToGetSignature: mov edi,	ature: edi, [esi+8]	; END_MANUAL_ENTRY ;;	VTPR!	<u> </u>
mov mov out	edx, [ebp].IOMsgRamPtr eax, 18790h / 2 dx, ax	; public GetSN proc	GetSN	
		Nom .	esi, [esi],RPacketOffset	
mov er mov er mov er getSignatureLoop: in an mov [v	edx, {ebp].IOMsgRam op: ax, dx {edi], ax	cli mov mov out	edx, [ebp].IOMsgRamPtr eax, 18760h / 2 dx, ax	
add	edi, 2 ecx	Nom		
jne	GetSignatureLoop	GetSNLoop:	edx, {ebp}.IOMsgRam	
sti mov xor ret	dword ptr {esi+4], 8 eax, eax	T d d d d d d d d d d d d d d d d d d d	ax, dx [esi], ax esi, 2	
SignTextError: mov ret	eax, -1	sti mov	Getshudop [esi], cl	
SignText subttl	endp Getsn	 r e r		
9560 *********	*	GetSN endp subttl page	CloseChannel	
	BEGIN_MANUAL_ENTRY( GetSN, DPC/API/GETSN )	******		\* *
, Name:	GetSN	; BEGIN_MANUAL	BEGIN_MANUAL_ENTRY( CloseChannel, DPC/API/CLSCHAN )	
; Description:	This routine is called by DriverManagement to return the adapters serial number.	; Name: ; Description:	CloseChannel This routing is called by DriverManagement to	;

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	e the specified channel.	out	×
; On Entry:	EAX N/A EBX Frame Data Space	mov	edx, {ebp}.IOMsgRam
	N/A	out	. "
	EDX N/A EBP Adapter Data Space	out	dx, ax dx, ax
•••	EDI N/A	ದೆಂದ	GRX
•••	Note: Interrupts are in any state.	A O E	edx, [ebp].IOMsgRamPtr
; On Return:	EAX Destroyed	one ACE	dx, ax edx. [ebp] IOMsqBam
		AOE	eax, 1
••		out	dx, ax
•••	Destroyed		
	רפשפונים	CloseChannelClo	CloseChannelCloseFilterNexE:
		dec	edi, size filerblide edx
•~	i	jne	CloseChannelCloseFilterLoop
** **	: SD& ::	ž	>eg ->eg
	Note: Interrupts preserved,	ret	
Remarks:	This routine is called by DriverManagement.	CloseChannelError:	or:
	3	ret	י. ר פמע'
; See Also:		;	
; END_MANUAL_ENTRY		CloseChannel subttl	endp AddAddress
***		page	
		***********	\*************************************
public CloseChannel	Close	; BEGIN_MANUAL_	BEGIN_MANUAL_ENTRY( AddAddress, DPC/API/ADDADRS )
AOH:	esi, [esi]. PPacketOffset : ESI -> config structure	, Name:	AddAddress
Nom	[esi]		מבס דה בסיים
Š	NAW YOUNG	, Description:	This routine is called by DriverManagement to
Cim c	CloseChannelError		add the address passed in.
Jea Jea	edi, [ebp].RxControl[esi*8]	on Entry:	EAX N/A
Cub	[edi].RxChannel, RBD_NOT_USED	,	
J.	CloseChannelError	•	
NOM.	[edi].RxChannel, RBD_NOT_USED		EDX N/A Barter Data Space
Nom	[edi].RxESR, 0	•	ECB
200	ACX. MAX ADDR	•••	EDI N/A
lea	edi, [ebp].Filter		Note: Interrupts are in any state,
CloseChannelCloseFilterLoop:	oseFilterLoop:		
Q e d	[edi].FilterChannel, esi	; On Return:	EAX Destroyed
911			ECX Destroyed
мош	[edi].FilterChannel, RBD_NOT_USED		
NOM NOM	eax, [edi].FilterCmdblKindex [ebb].EblkBusvFlags[eax]. 0		EBP Preserved
usnd	ecx size Eblikstruct		. 30 6 (1
mu1			
NOM	_,	••	Note: Interrupts preserved.
D L	eax, 18100n	. Remarks.	This rolltine is called by DriverManagement
ysnd			called at process
add	eax, 3	••	

eax, dword ptr [est].CfgAddress  ecx, [est].CfgNumAddresses  sure this address is not a duplicate ed, [ebp].Filter ed, MA.ADDR [edt]:FilterChannel, RBD_NOT_USED AddAddrouplicateNext eax, dword ptr [edt]:FilterAddress ax, word ptr [edt]:FilterAddress AddAddrouplicateNext eax, word ptr [edt]:FilterAddress AddAddrouplicateNext edt, size FilterStruct edt, size FilterSt	See ATEO:	public Addac	public	Addaddr	
Process   Proc	; END_MANUAL_	ENTRY	AddAddr proc		
Procedure   Proc	****	***************************************	mov Debugh	<pre>dword ptr [esi].CfgAddress DEBUG_IOCTL, AddAddrMsg,</pre>	
v est, [est] Reachetoffset v est, MAX_CHAN v (edi, NaChannel Error v OpenChannel Error v OpenChannel Error v (edi, NaChannel RBD_NOT_USED) v OpenChannel Error v (edi, NaChannel RBD_NOT_USED) v OpenChannel Error v (edi, NaChannel RBD_NOT_USED) v OpenChannel Error v endp v	publi AddAddress		том том		ECX
a ed. (ebp) RxControlleax'8  bril thru to AddAddr DeCAPI/ADDADDR ) bril the address to the adapter.  AddAddr Decapicate and openChannel is called by AddAddress and openChannel is called the access time.  Flags:  This routine is called by AddAddress and openChannel is called at process time.  This routine is called by AddAddress and openChannel is called at process time.	Nom Von		r Addris Addrighter		
edi, (ebp):RXControl(eax*8]  lead dedtomnelEror RBD_NOT_USED  AddAddr CoperchannelEror Cmp	Ja Ja		First make	ಳ	
perll thru to AddAddr  endp  bttl AddAddr	lea cmp je	edi, [ebp].RxControl[eax*8] [edi].RxChannel, RBD_NOT_USED OpenChannelError	, lea mov AddAddrDuplica	edi, [ebp].Filter edx, Max_ADDR teLoop:	
bett   AddAddr NuAL_ENTRY( AddAddr DEC/API/ADDADDR )  AddAddr Dec		thru	cap cap mov cap	<pre>{edi].FilterChannel, RBD_NOT_USED AddAddrDuplicateNext eax, dword ptr [edi].FilterAddress eax, dword ptr [esi].CfgAddress AddAddrbunifortenext</pre>	
Description: This routine is called by AddAddress and OpenChannel   AddAddring eds, size FilterStruct   AddAddr   AddAddress and OpenChannel   AddAddress   AddA	AddAddress subtt: page	endp AddAddr	mov Cmp Jne	ax, word ptr [edi].FilterAddress+4 ax, word ptr [esi].CfgAddress+4 AddAddrDuplicateNext	
Name: AddAddr. AddAddress and OpenChannel to add edit size FilterStruct add edites to the addates to the addates.  Don Entry: EAX N/A EAS Frame Data Space add size Filter table if Find an empty slot in the filter table if Filt	***	****	mov		
Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called by AddAddress and OpenChannel  Description: This routine is called	BEGIN WANDA	JENIKI( Adahadi, UPC/API/AUDADUR )	AddaddrDunlics	×	
Description: This routine is called by AddAddress and OpenChannel jne AddAddrebuplicateLoop j Find an empty slot in the filter table on Entry: EBX N/A EAR Space edv, edx		Addaddr	ppe	edi, size FilterStruct	
On Entry: EAX N/A  EBX Frame Data Space  EDX N/A  Note: Interrupts are in any state.  EDX DASHOWL_ENTRY:  Frame Data Space  i edy; EDB; Filter table  i edy; EDB, Filter table  i edy; EDB, Filter table  i edy; EDB, NOT_UNE  edx, MAX_ADDR  inc edx				AddAddrDuplicateLoop	
EX.   Frame Data Space	ő		Find	slot in the filter	
MaddadrindsmptyLosp  I ECB Interrupts are in any state.  Destroyed X Destroyed		Frame Data N/A	lea	edi, [ebp].Filter edx, edx	
te: Interrupts are in any state.  X Destroyed X Destro		N/A Adapter ECB N/A	AddAddrFindEmp Cmp je je	tyLoop: [edi].FilterChannel, RBD_NOT_USED AddAddrFindEmptyFound edi, size FilterStruct	
X Preserved X Preserved X Destroyed X Destroyed Y Destroyed P Preserved I Pres		: Interrupts are in any	Lnc	edx edx, MAX_ADDR	
X Preserved X Destroyed X Destroyed Y Preserved I Pres	On Return:		af	AddAddrf indempty boop	
Preserved I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I Preserved  I I I I I I I I I I I I I I I I I I I			mov		
I Preserved  I I Preserved  I I I I I I I I I I I I I I I I I I I			AddAddrFindEmp	tyFound:	
mov eax, dword ptr [est].CtgAddress mov dword ptr [est].CtgAddress, emv dword ptr [est].FilterAddress, emv dword ptr [est].CtgAddress+4, mov dword ptr [edt].FilterAddress+4, mov [edt].FilterTotalCount, 0 mov [edt].FilterSeqCount, 0 mov edx, 16 mov edx, 17 mo			Nom Nom	eax, [esi].CfgChannel [edi].FilterChannel, eax	
te: Interrupts preserved.  is called by AddAddress and OpenChannel.  is called at process time.  mov (edi).FilterTotalCount, 0 mov (edi).FilterSeqCount, 0 mov (edi).FilterSeqCount, 0 mov (edi).FilterSeqCount, 0 mov (edi).FilterSeqNum, 0 mov (edi).Filte		Flags:	Nom Nom	eax, dword ptr [esi].CfgAddress dword ptr [edi].FilterAddress, eax	
is called by AddAddress and OpenChannel.  is called at process time.  is called at process time.  mov edx, 16  mov eax, 31  test (esi).FilterTotalCount, 0  mov edx, 16  in AddAddress+0, 02h  in AddAddreindEblkLoop  mov edx, 2  mov edx, 2			NOM MON		
mov         eax, 16           mov         eax, 31           test         [esi].CfgAddress+0,           jnz         AddAddrFindEblkLoop           mov         edx, 2	Remarks;	is called by AddAddress and OpenCha at process time.	NOM NOM	20	
mov eax, 31  teax, 31  mov eax, 2	See Also:		Nom I	edx, 16	
7 zui	END_MANUAL_E	INTRY	mov	31 ].CfgAddress+0,	
	*****	***************************************	jnz	AddAddrFindEblkLoop edx, 2	

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cmp	AX_CONF_ADDR	
lea eb: DeleteAddressLoop:	ebx, [esi].CfgAddress Loop:	DeleteAddress endp subtil RegisterAgentSendRoutine page
mov ch, MAX_ lea edi, [eb DeleteAddressFilterLoop:	<pre>ch, MAX_ADDR edi, [ebp].Filter FilterLoop:</pre>	
Nom	eax, dword ptr [ebx+0]	) BEGIN MANUAL ENTRY ( REGISTERAGENTSENGROUTINE, DPC/API/DELADDR )
cmp	<pre>eax, dword ptr {edi}.FilterAddress+0 DeleteAddressNextFilter</pre>	; Name: RegisterAgentSendRoutine
MOW	ax, word ptr [ebx+4]	ed by DriverManagement to
Jne	ax, word pir ledij rijteraddress+4 DeleteAddressNextFilter	register a Slip Send routine. The first dword in the first  ECB fragment points to the Slip Send routine to use. To  deregister the send routine, set the dword to a NULL.
Now DED	eax, {esi}.CfgChannel eax. {edi}.FilterChannel	5
Jue	DeleteAddressNextFilter	Elicty: EAA
vom	[edi].FilterChannel, RBD_NOT_USED	ECX N/A
Nom Nom	eax, [edi].FilterCmdbikIndex [ebp].EblkBusyFlags[eax], 0	) EBP Adapter Data Space ) ESI ECB
pushfd		יין אר איני איני איני איני איני איני איני א
usnd	ecx	c: tircettupes are til ally
mov Lim	ecx, size EblkStruct	on Return: EAX Destroyed
Now	edx, [ebp].IOMsgRamPtr	
a a d	eax, 18100h	
add a	eax, 3	
push	eax dx. ax	; EDI Preserved
Nom	edx, [ebp].IOMsgRam	Flags:
xor	eax, eax	
out	dx, ax dx, ax	Note: Interrupts preserved.
out		is routine is
dod	e exx	It is called at process time.
dod	60X	; See Also:
Aom Vom	edx, {ebp},IOMsgRamPtr	END MANUAL ENTRY
ont	מ'א, אא	
NOM NOM	edx, [ebp].IOMsgRam pax. 1	一种产业中央中央企业中央企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企
out	dx, ax	RegisterAgentSendRoutine proc
popfd		1000 TO 1000 T
DeleteAddressNextFilter:	extFilter:	
add der	edi, size FilterStruct ch	Hov eax, [est]
jne	DeleteAddressFilterLoop	dite (*
DeleteAddressNext:	ext:	xor eax, eax ret
add	ebx, 6	
Jne	ol DeleteAddressLoop	RegisterAgentSendKoutine endp subttl RegisterAgent
xor	eax, eax	page
ret		
DeleteAddressError:	rror:	; BEGIN_MANUAL_ENTRY( RegisterAgent, DPC/API/REGAG )

### Feature fourth to first whored	Thu Jul 17 14:46:01 1997	:01 1997 dpc.386 l- (	Thu Juli 7 (4) (45) 1997 dpc.386
Prescription   This routine is called by Dytrefanasement to take the process of a country in the routine is called by Dytrefanasement to the process of a country in the routine is called by Dytrefanasement country   Dot			N/A
Charactering   EXX   N/A	) Description	This routine is called by DriverManagement to register package delivery/internet agent. The first in the first ECB fragment points to the Remove routithat we must call before we are removed.	ECB N/A
On Britcy: EXX N/A	•		ייייכי בעבי ייי מיוץ
On Return: EBX   Preserved		EAX N/A EBX Frame Data Space ECX N/A EDX N/A EBP Adapter Data Space ESI ECB EDI N/A	On Return: EAX EBX ECX EDX EDX ESI ESI EDI
On Relutin: EBX Preserved EBX Preserved EBY		Interrupts are in any	Flags:
EXP Preserved  EXI Preserved  Freesrved  Fig. Preserved  Freesrved  Freesrved	On Return:		Note: Interrup
Flags:  Note: Interrupts preserved.  Note: Interrupts preserved.  See Also:  END_MANUAL_ENTRY  END_MANUAL_ENTRY  mov esi, [esi].RPacketOffset ; ESI -> config structur on mov mov mov esi, [esi].RPacketOffset ; ESI -> config structur on mov esi, [esi].RPacketOffset ; ESI -> config structur on mov esi, [esi].RPacketOffset ; ESI -> config structur on mov esi, [esi].RPacketOffset ; ESI -> config structur on mov esi, [esi].RPacketOffset ; ESI -> config structur on mov esi, [esi].RPacketOffset in the formal Routine esi, [esi].RPacketOffset in the formal Routine esi, [esi].RPacketOffset in the first CompleteRoutine esi, [esi].RPacketOffset in the first Complete routine esi, [esi].RPacketOffset in the first ECE fragment by DriverManagement to endif in the first ECE fragment points to a LONG which we will page entitie in the first ECE fragment points to the TCB complete routine.  ON ENTY.  EXX. N/A  Description: EXX N/A  EXX. N/A  EXX. N/A  CPUSH  CEDIS  CONTINESTANDS  CONTINE			ic is called at process:
Remarks: This routine is called by DriverManagement.  See Also:  See Also:  END_MANUAL_ENTRY  mov eax, [est].RPacketOffset			END_MANUAL_ENTRY
Remarks: This routine is called by DriverManagement.  See Also:  See Also:  END_MANUAL_ENTRY  mov eax, [esi]. RPacketOffset ; ESI -> config structur and mov mov [ebp]. AgentRemoveRoutine, eax ; Save it for later and mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and mov mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and mov mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and mov mov mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and mov mov mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and for mov mov mov mov mov mov [ebp]. AgentRemoveRoutine eax ; Save it for later and for mov mov mov mov later eax. eax. eax. eax. eax. eax. eax. eax.	• •		************
END_MANUAL_ENTRY  mov esi, [esi].RPacketOffset ; ESI -> config structur mnov mov mov mov eax, [esi]  mov eax, eax mov eax, eax mov [ebp].AgentRemoveRoutine, eax ; Save it for later mov mov mov subtl ReturnTCBCompleteRoutine sgisterAgent endp cap subtl ReturnTCBCompleteRoutine, DPC/API/RETADS )  BEGIN.MANUAL_ENTRY( ReturnTCBCompleteRoutine, DPC/API/RETADS )  Description: This routine is called by DriverManagement to return the TCB Complete routine. The first dword in the first EDB fragment points to a LONG which we will subtl return with a pointer to the TCB complete routine.  Description: EBX Frame Data Space  On Entry: EBX Frame Data Space  CPUSH  Description: CPUSH  CPUSH  and d  CPUSH  and d  cor  mov mov mov  cor  cor  cor  cor  cor  cor  cor  c	Remarks:  See Also:	1 -1 42 2 2 13	r r o
egisterAgent proc  mov eax, [esi].RPacketOffset ; ESI -> config structur mov mov mov eax, [esi].RPacketOffset ; ESI -> config structur ship of the config structur and composite to the configuration of the configuration	; END_MANUAL_E	SNTRY	
and mov esi, [esi].RPacketOffset ; ESI -> config structur shi mov eax, [esi]  EAX -> Slip Send Routine Address  mov [ebp].AgentRemoveRoutine, eax ; Save it for later add cmp jae  wor eax, eax  mov [ebp].AgentRemoveRoutine add cmp subtt] ReturnTCBCompleteRoutine add cmp jae  ggisterAgent endp coupleteRoutine add cmp subtt] ReturnTCBCompleteRoutine add cmp coupleteRoutine add cmp cmp coupleteRoutine add cmp cmp coupleteRoutine add cmp	*********	************************	
mov eax, [esi]. RPacketOffset ; ESI -> config structur shl mov eax, [esi] mov eax, [esi] mov eax, [esi] mov [ebp]. AgentRemoveRoutine, eax ; Save it for later can can can be considered and can be considered and can be considered and can can be considered and can can be considered and can	; RegisterAgent	proc	eax, edx,
EAX -> Slip Send Routine Address  mov [ebp].AgentRemoveRoutine, eax ; Save it for later add cmp jae  xor eax, eax  mov [ebp].AgentRemoveRoutine, eax ; Save it for later add cmp jae  subttl ReturnTCBCompleteRoutine CPOP CPOP CPOP CPOP CPOP CPOP CPOP C		[esi].RPacketOffset ; ESI -	ecx,
egisterAgent endp subttl ReturnTCBCompleteRoutine subttl ReturnTCBCompleteRoutine page  ***********************************	mov EAX -> Slip mov xor ret	eax, [esi] Send Routine Address [ebp].AgentRemoveRoutine, eax ; Save it for leax, eax	mov [edx], eax add edx, 4 cmp edx, timestamp_end jae short DPCTimestampBegin
BEGIN_MANUAL_ENTRY ( ReturnTCBCompleteRoutine, DPC/API/RETADS )  Name: ReturnTCBCompleteRoutine  Description: This routine is called by DriverManagement to return the TCB Complete routine. The first ECB fragment points to a LONG which we will return with a pointer to the TCB complete routine.  On Entry: EAX N/A  ECX N/A  DPCTImestampBegin:  mov edx, timestamp_begin:  jmp DPCTimestampExit  DPCTImestampBegin:  jmp DPCTimestampLogin  j	RegisterAgent subttl page	endp ReturnTCBCompleteRoutine	imestamp_index, word ptr [edx],
BEGIN_MANUAL_ENTRY( ReturnTCBCompleteRoutine, DPC/API/RETADS )  Name: ReturnTCBCompleteRoutine  Description: This routine is called by DriverManagement to	****	*****	יופר
Description: This routine is called by DriverManagement to return the TCB Complete routine. The first dword in the first ECB fragment points to a LONG which we will return with a pointer to the TCB complete routine.  On Entry: EAX N/A ECX N/A CPUSH		DPC/API/RETADS )	j;
in the first ECB fragment points to a LONG which we will subttl DriverTCBComplete return with a pointer to the TCB complete routine.  On Entry: EAX N/A  ECX N/A  CPush  CPush		called by DriverManagement	mestamp
On Entry: EAX N/A EBX Frame Data Space ECX N/A CPush		in the first ECB fragment points to a LONG which we will return with a pointer to the TCB complete routine.	tl DriverTCBComplete
BCX N/A			
		N/A	CPush

Thu Jul 17 14:46:01 1997	6:01 1997 dpc.386	To have been used one and the line of the last of the	Page 33 Thu Jul 17 1 446 01 1997	dpc,386	Page 34
NOM NOM	esi, (esp + Parm0) ebp, OurAdapterDataSpace	TCB Adapt	•• ••	rrup	
inc call	[ebp].MSWTxFreeCount EtherTSMFastSendComplete	<pre>// Add to send resources // Give it back</pre>	Remarks:	This routine is called by Driver It is called at process time.	DriverManagement. .me.
test	<pre>(ebp).MSMStatusFlags, SHUTDOWN GetNextSendExit</pre>	; Don't get next send ; if we're shutting down.	; See Also:		
GetNextSendLoop	op: [ebp].MSMStatusFlags, TXQUEUED	; Any ECB's waiting.	; END_MANUAL_ENTRY ; ;**********************************	NTRY ************************************	*************
jnz GetNextSendExit	**		; public OpenChannel	OpenChannel proc	
CPop			ЛОШ		; ESI -> config structure
GetNextSendGetIt:	A CONTACTOR DE LA CATA		; Don't open if	f we don't have signal lock.	
cart jne call jnp	shire is more than 16 and 16 a	get next send no send Send it. 7e have any mor	duo ;	[ebp].SignalQuality, 200 OpenChannelBrror	
DriverTCBComplete	dpuə		; Find an empt	an empty RxControl entry	
ReturnTCBComp	ReturnTCBCompleteRoutine proc		xor e lea e FindEmptvRBDLoop:	<pre>ecx, ecx edi, [ebp].RxControl op:</pre>	<pre>// ECX = index // EDI -&gt; Rx Control Structures</pre>
NOM NOM	es1, [es1].RPacketOffset ; dword ntr [es1]. offset DriverTCRComn]ere	; ESI -> fragment	cmp jne	[edi].RxChannel, RBD_NOT_USED FindEmptyRBDNext	; empty? ; Jump if not
Xor	eax, eax		; Found one. I	Initialize it before adding addresses	និចន
ReturnTCBComplessible subtile	ReturnTCBCompleteRoutine endp subttl OpenChannel page		M M OV N ON N ON N ON N ON N ON N ON N O	<pre>[edi].RxChannel, ecx [esi].CfgChannel, ecx eax, [esi].CfgESR [edi].RxESR, eax</pre>	; Save channel number
****	*****************	\****************	ysnd	edi	
; BEGIN_MANUA	BEGIN_MANUAL_ENTRY( OpenChannel, DPC/API/OPENCHAN	VCHAN )	call pop	ro	
; Name:	OpenChannel		or Jne ret	eax, eax OpenChannelDidntAdd	
) Description:	: This routine is called by DriverManagement to open a channel on the adapter to receive packets from.	prManagement to to receive packets	OpenChannelDidntAdd: mov [edi	ntAdd: [edi].RxChannel, RBD NOT USED	
; On Bhtry:			mov mov ret		
** **	EDX N/A EBP Adanter Data Space		FindEmptyRBDNext:	xt:	
	ECB N/A		add cmp	ed, size RX_CNTL ecx, MAX_CHAN Findsmervesnicon	
	Note: Interrupts are in any state	state.	T Orange House	dooglas Kadiman II.	
; On Return:			mov	eax, -1	
***			OpenChannel		
	Ebr Freserved ESI Preserved EDI Preserved		subtil page	RefreshMipsScats	
	Flags:		****	化化二苯甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	\****************
· ••	1		BEGIN_MANUAL	BEGIN_MANUAL_ENTRY( RefreshMipsStats, DPC/API/RFSHMIPS	/RFSHMIPS )

Thu Jul 17 14:46:01 1997		dpc.386 he had been som som som en anne som	L. Page 35 Thu Juli 14:46:01 1997	dnc 186
; Name:	RefreshMipsStats		; BEGIN_MAN	( GetMipsStats, I
Description:	This from Mips	routine is called by to read the Mips stats the adapter and to store them into the Local Stats structure,	Name: ; Description:	,
On Entry:		Space	On Entry:	statist Ita Spac Data Sp
•••	Note: Interrupts are in	in any state.	•••	
On Return:	EAX Destroyed EBX Preserved ECX Destroyed EDX Destroyed ESI Preserved ESI Preserved EDI Destroyed		On Return:	Note: Interrupts are in any state.  EAX Destroyed EDX Preserved ECX Destroyed EDX Destroyed EBP Preserved EBP Preserved ESI Preserved EDI Preserved
** **				Flags;
	Nove: Interrupts preserved.	erved.		
Remarks:	This routine is called by GetMi DriverCallBack. It can be called at process or	by GetMipsStats and sess or interrupt time.	Remarks:	Note: Interrupts preserved. This routine is called by DriverManagement. It is called at process time.
; See Also:			; See Also:	
; END_MANUAL_ENTRY	NTRY		; ; END_MANUAL_ENTRY	ENTRY
****	*****		****	
; RefreshMipsStats	proc		; GetMipsStats	50
pushfd cli mov mov mov	edx, [ebp].IOMsgRamPtr eax, 18700h / 2	,	push call pop	
mov lea mov cld	, X 4 4 5	; LocalMipsStats	nov nov cld rep	edi, [esi].RPacketOffset esi, [ebp].MipsRxEnables ecx, (size StatsBlk) / 4 i LocalMipsStats movsd
GetMipsStatsLoop: in a stosw	p: ax, dx		xor	eax, eax
loop	GetMipsStatsLoop		ipsSt	endp
poprd xor ret	eax, eax		BEGIN MANUAL	BEGIN_MANUAL_ENTRY( DriverMulticastChange, DPC/API/MULTI )
RefreshMipsStats subttl	endp GetMipsStats		Name:	DriverMulticastChange
page ************************************	*	*****************	) Description:	This routine will modify the NIC's multicast registers to enable it to receive the multicast addresses listed in the multicast table. Each entry in the multicast table is as follows:

hu Jul 17 14:46:01 1997	To the true that the true true true true true true true tru	Page 37 Thuild 17.11 4:36(01 1997	t 1997 dpc,386		Page 38
bytes 0-5 = bytes 6-7 =	Multicast Address. Entry used(Non zero if used),		e: Interrupts a	state.	
) On Entry: EAX N/A ; EBX N/A ; ECX # 0 Entr ; EDX N/A ; EBP @ Adapter ; ESI @ Multica ; EDI N/A	N/A N/A # of Entries in Table( O if empty ) N/A @ Adapter Data Space @ Multicast Table N/A	On Return:	EAX Destroyed EBX Preserved ECX Destroyed EDX Destroyed EBP Preserved ESI Destroyed ESI Destroyed		
Note: Interrupts	s are in any state.		Flags:		
On Return: EAX Destroyed EBX Preserved ECX Destroyed EDX Destroyed EBP Preserved EBP Preserved EBP ESERVOYED ESI Destroyed		No ;  Remarks; Th ;  See Also: ET ;  END_MANUAL_ENTRY	ite: Interrupts preservis routine is called by can be called at proces	red. the ethernet media module. ss or interrupt time. ousChange	
Flags: Note: Interrupts	Internity necessary	***	****	***************************	
Remarks: This rou It can b	called by the ethernet media module.	DYIVerFromiscuousChange procret	ischange proc		
See Also: ETHERTSM\EtherTSWA ETHERTSM\EtherTSWA	ETHERTSM\EtherTSMAddWulticastAddress ETHERTSM\EtherTSMDeleteMulticastAddress ETHERTSM\EtherTSWUpdateMulticast	DriverPromiscuousChange subtil Calcu page	CalculateDriftDelta		<del></del>
; END_MANUAL_ENTRY		; * * * * * * * * * * * * * * * * * * *	**************************************	**************************************	
MulticastChange	一人女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女女	, Name:	lateDriftDelta		
*****		; Description:	Acquisition State Routine,		
<pre>// First reset Multicast Address Re //***********************************</pre>	gistors. ************************************	on Entry:			
DriverMulticastChange endp subttl DriverPromiscuousChange page	usChange	** ** ** **	EDI N/A Note: Interrupts are in al	any state.	
; BEGIN_MANUAL ENTRY ( DriverPromiscuousChange	**************************************	; On Return:	EAX Destroyed EBX Preserved ECX Destroyed		-
; Name: DriverPromiscuousChange			Des Pre Pre		
Description: This routine will	enable/disable the Promiscuous Mode.		ED1 Preserved		
On Entry: EAX N/A EBX N/A ECX 0 to disable the Professor of the Professor	le the Promiscuous mode Data Space t Table	Remarks:	Flags: Note: Interrupts preserved, This routine is called by InitState It can be called at process or inte	1. litState, or interrupt time.	

Thu Jul 17 14:46:01 1997	01 1997 dpc.386 H.	9 THUILD IN 1914 4369	dpc.386	Page 40
; END_MANUAL_ENTRY			The state of the s	200
****	**************************************			
; public CalculateDriftD		· · · · ·	EDA N/A EBP Adapter Data Space ESI N/A EDI N/A	
mov cmp jbe	edi, [ebp].Drift edi, NOM_COUNT_TRACK DriftbelowNOM	; On Return:	Note: Interrupts are in any state. EAX Destroyed EBX preserved	
lea xor mov div	eax, [edi - NOM_COUNT_TRACK] edx, edx ecx, 2.10 ecx [ebp].GLDrift, eax	. to be so to to to	ECX Destroyed EDX Destroyed EBP Preserved ESI Preserved EDI Preserved	
mov mul		. h. t	Flags: Note: Intermints preserved	
shr mov mov sub	eax, 4 edi, eax edi, bax eax, [ebp].Drift eax, NOM_COUNT_TRACK	; Remarks:	rou or	······································
	edi, offfth	; See Also: ; END_MANUAL ENTRY	Xatu	
inc aov	edi, [ebp],GLDrift [ebp],GLDrift, edi	****	<ul><li>( ) 中央企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业企业</li></ul>	
		bublic step proc	Step	
DriftBelowNOM:		NOM.	aax (ahn) MaxtStanCount	
dus Sub	eax, NOM_COUNT_TRACK eax, [ebp].Drift	inc	רמילה: יאפאריז הפליניסתוור פקX	•
MOV Add	edx, edx edx, 210 edx, 210	mov		
Nom	[ebp].GLDrift, eax	<b>УОЕ</b>	[ebp].NextStepCount, edx	
mov mu1	ecx, 210 ecx	mov Cmp je	eax, [ebp].SearchLoc [ebp].SearchLocFound, FALSE DontUseNextStep	<del></del>
	edi, Now_counr_rrack edi, [ebp].Drift edi, eax	or je	edx, edx StepSetGLOffset edx, 2	
Non	eax, Offffh	je		<del>-</del>
	eax, edi eax	inc cmp je	eax edx, 1 StepDivideBy3	
alculateDriftDe subttl page	ita endp Step	inc StepDivideBy3: xor mov	eax edx, edx ecx, 3	
****	· 一种的 医克尔特 有力的 有力的 医克尔特氏 医克尔特氏病 化二甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基甲基	div mov	ecx eax, edx	
	BEGIN_MANUAL_ENTRY( Step, DPC/API/STEP ) Name: 'Step	StepSetGLOffset	eax, SearchTb1(e	
tion:	Acquisition State Routine.	jmp	lebbi.chouiset, eax StepCaloRx	
On Entry:	EAX N/A	DontUseNextStep: mov	: gcx, ScarchTb1[cax • 4]	<del>-</del>
				_

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wow		Mow	offset InitStat
inc	eax edx, edx	je nov	
mov div	ecx, 3 ecx [ebp].GLOffset, edx	push push call	eax DPCScreen OutputToScreen
StepCalcRx:	1	lea InitStateNoMsg:	esp, [esp + (2 * 4)]
mov call mov	[ebp].Drift, 0 CalculateRxFreq [ebp].Drift, NOM_COUNT_TRACK	call add	CalculateDriftDelta eax, NOM_COUNT_REACQ
		mov	edx, [ebp].IOCountNomLowAddr dx, al
Step endp subtil page	InitState	shr mov out	al, 8 edx, {ebp}.IOCountNomHighAddr dx, al
****	\	мом	
; BEGIN_MANUAL	BEGIN_MANUAL_ENTRY( InitState, DPC/API/INITSTA )	mov	eax, [ebp].ReacqGateCount dx, al
, Name:	InitState	you.	
; Description:	Acquisition State Routine,	or	
; On Entry:		ont	dx, al
** ** ** *	Frame Data Sp N/A N/A	mov xor out	edx, [ebp].IOBtrControlAddr eax, eax dx, ax
	ESI N/A EDI N/A	mov in	edx, [ebp].IOAfcControlAddr al, dx
•• •• •	Note: Interrupts are in any state.	or	al, SWP_ENA_MASK dx, al
; On Return:	EAX Destroyed BBX Preserved	щоv с.	edx, [ebp].IOBtrControlAddr
		or out	al, FREQ_PWR_OFFSET OR 6 OR BTR_SENSE_MASK dx, al
· · · ·	ESI Preserved	you.	
	: :	or out	al, RESET_FEC_ACQ_MASK dx, al
••••	Note: Interrupts preserved.	wow.	edx, [ebp].IOSynthSerControlAddr
; Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time.	in cmp jne	ai, ax [ebp].ViterbiMode, LOWRATE InitStateSetMode
; See Also:		andjmp	al, NOT MODE_MASK InitStateCheckRate
; END_MANUAL_ENTRY		InitStateSetMode:	:: al, MODE MASK
***	II	InitStateCheckRate;	14. 14. 14. 14. 14. 14. 14. 14. 14. 14.
public InitState	InitState proc	2	edx, [ebp].IOSpareIOControlAddr
cmp	(ebp).TrackingMode, TRUE	mov cmp	al, Oah [ebp], Vierbionly, 2
dwb	DebuqMask, 0	NOW CIME	al, ob (chr).Viterbionly, 1
je	InitStateNoMsg	je	

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Thu Jul 17 14:46:01 1997	01 1997 dpc.386	main series communication of the series of t	Page 43   Thu Jul 17 14:46:01 1997	dpc,386
mov a InitStateSetRate:	al, Ofh ite:		or	
out	dx, al [ebo].NextState.ENABLE BTE			5
dwf	InitStateCheckPointing		XOX	edx, [ebp].IOBtrControlAddr eax, eax
InitStateNotTracking:	acking:		out	dx, al
Сшр	DebugMask, 0		mov.	edx, [ebp].IOAfcControlAddr
J.	InitStateNNoMsg		9	al, GWP_ENA_MASK
Cuip	eax, ofiset initstateNoTrackMsg eax, LastDebuqMessage		out	
, a	വ			
Nom	LastDebugMessage, eax		AOM	eax, [ebp].loagcrircontroladr al, 10 OR AGC_SENSE_MASK
hsnd	68X 00767		ont	dx, al
call.	OutputToScreen			
lea	esp, [esp + (2 * 4)]		out.	edx, [edp].lObcrcontrolAddr al, dx
InitStateNNoMsg:			or	al, FREQ_PWR_OFFSET OR 6 OR BTR_SENSE_MASK
мом			ano .	מא, מו
Xox	eax, eax		. Nom	edx, [ebp].IOCr1kThrLowAddr
	מא' מד		mov Tuc	a1, 60h
Nom	edx, [ebp].IOSpareIOControlAddr			15 (V)
CIMO	al, uan [ebp].Viterbionlv. 2		Nom	edx, [ebp].IOCthAddr
j e	teNTSetRate		mov	at, veun dx. al
MOV				
cimb circ	[ebp].Viterbionly, 1		vom	
Nom	al, oth		Nom	
InitStateNTSetRate:			ine ine	lebbl.wodulacionscheme, brsk Initstatesetsena
ont	dx, al		or	al, DEPUNC_BYPASS_MASK
NOM	edx, [ebp].IODaAdOffsetControlAddr		InitStateSetSena:	184: 14, 24
xor				
ont	dx, al		vom	edx, [ebp].IOCr1kControlAddr
wom	edx, [ebp].IOAfcControlAddr		wow.	al, 16 OR CRLK_GAIN_OFFSET OR CRLK_DET_PWR_OFFSET
NOM.				
or	٠. '		Nom	edx, [ebp].IOSynthSerControlAddr
300	מאי מו		u i	<u>×</u>
мом			Canp	(abp).ViterbiMode, LOWRATE InitStateResetBtr
Mov	al, 8an		)	
ano	dx, al		i o	al, RESET_BTR_ACC_MASK
Voni			clui	TILL STOCTON BETT
Value o	eax, [ebp].ReacgGateCount		InitStateResetBtr:	str:
3			Or all	al, MODE_MASK OR RESET_BIR_ACC_MASK
wow			no	dx, al
VOE THE	eax, [ebp].SqfDeltaCount			
3			in	al, dx al. NOT RESET BTR ACC Mask
NOE E	eax, [ebp].NomCountSearch		out	
мош	edx, [ebp].IOCountNomLowAddr			
out	dx, al			
ans Nom	eax, 8 edx, febpl.IOCountNomHighAddr		Nom	[ebp].NextState, ACQ_PD
out			InitStateCheckPointing:	ointing:
mov r:	edx, [ebp],IOSynthSerControlAddr		>om	[ebp].RateCount, 0
-	מדי מא		NOM -	[ebp].PointingFlag, TRUE

Thu Jul 17 14:46:01 1997	01 1997 dpc.386   L.   L.   L.   L.   L.   L.   L.   L	s Thu Jul 17.143469	N 1997 dpc.386 Page 46
cmp	<pre>(ebp).DemodCommand, POINTING_MODE Interference</pre>	ProgTunerLoop:	
MOV TO THE PERSON TO THE PERSO		T C X	r og Luner exic
InitstateExit:		Now Tu	edx, [ebp].IOSynthSerControlAddr al. dx
> om	[ebp].SignalQuality, 0 [ebp].DemodCommand, BKSV MODE	test	esi, ecx
^om	[ebp] DemodStatus, UNLOCKED	ש 	בי ספותוונים במו
nov	<pre>{ebp].FecStatus, UNLOCKED</pre>	or and	al, SDATA_MASK al, NOT SCLK_MASK
InitState	endp	out	dx, al ProgTunerDelay
anscor		   ProgTunerClear:	
****	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	and	al, NOT (SCLK_MASK OR SDATA_MASK) dx, al
	BEGIN_MANUAL_ENTRY( Progruner, DPC/API/PROGTUN )	ProgrunerDelay	
; Name:	Progruner	shr	ecx, 1
		now in	edx, [ebp].IoStatusAddr al, dx
; On Entry:	EAX N/A	ri	al, dx
		Nom	edx, [ebp].IOSynthSerControlAddr
•• ••	ECX N/A EDX N/A	# b	al, dx
		out	dx, al
	EDI N/A	Nom.	edx, [ebp].IOStatusAddr
• •• •	Note: Interrupts are in any state.	u i	aı, dx al, dx
, On Return:	BAX Destroyed	dwf	ProgrunerLoop
•••••	EBX Preserved BCX Destroyed EDX Destroyed	ProgTunerExit:	edx. [ehn]. IOSunth SerControl hada
		in and out	al, dx al
	Flags:	ret	
	Note: Interrupts preserved,	ProgTuner	endp
; Remarks:	This routine is called by Tune. It can be called at process or interrupt time.	Ţ	
; See Also:		*****	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
; END MANUAL ENTRY	YTRX	; BEGIN_MANUAL_ENTRY(	ENTRY( Tune, DPC/API/TUNE )
*****	/ 水流的复数形式 电电影电影 医电影 医电影 医电影 医电影 医电影 医电影 医电影 医医生物 医医生物 医医生物 医生物 医医生物 医生物 医生物 医生物 医生物	, Name:	Tune
nib] to		, Description:	Acquisition State Routine.
rogTune	proc	; On Entry:	EAX N/A EBX Frame Data Soare
; EAX = data ; ECX = len			N/A N/A
dec	ecx edx, 1		bbk Adapter Data Space ESI N/A EDI N/A
shl	edx, cl		-
Nom			Note: Interrupts are in any state.
		; On Return:	EAX Destroyed

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· ·	Preserved		the same of the sa	010
•-		wom	edx, [ebp].IOSynthSerControlAddr	
•• •		in	al, dx	
		and	al, NOT SENA_MASK dx. al	
	EDI Preserved		45	
	Plags:	you you	eax, 28h OR 2000h ecx, 16	
•••	Note: Interrupts preserved.	call	Progruner	
. Bonney.	candomonal data of the fact of or the contract of the	Nom	edx, [ebp].IOSynthSerControlAddr	
, wellat 05	It can be called at process or interrupt time.	or		
; See Also:		out	dx, al	
; END_MANUAL_ENTRY	NTRY	> u · f · r	edx, [ebp].IoStatusAddr al, dx al dx	
*****	— ************************************	<b>=</b>	מו, טא	
	Tune	TuneSetNA:	edx, [ebp].IOSynthSerControlAddr	
Tune proc		th and	al, dx	
cmp	[ebp].TunexTypeFound, SHARP TuneSharnBan	out	dx, al	
dwo	(ebp).TunerTypeFound, PANASONIC	Nom		
je		add		
O G	ebpj.TunerTypeFound, SHARP_CUSTOM ThineSharnChstom	xor		-
ret		div	eck, simin_mailo eck	
;		Nom	edi, edx	
TuneSharpPan:	edx. [ebb].IOSvnthSerControlAddr	0.0	eax, 3000h	
In	ರ	mov	ecx, 16	
or	al, SENA_MASK	. call	Progruner	
3	מאי מז	ŠČE		
мош	edx, [ebp].IOSynthSerControlAddr	AOM MOV	eax, ed. ecx, 8	
ni n	Ţ×.	call	Progruner	
and	al, NOT (SCLK_MASK OR SDATA_MASK)			<u>-</u> -,
ano	ן אני 'XD	Nom .	edx, [ebp].IOSynthSerControlAddr al dx	
Cub	[ebp].TrackingMode, 0	# o	al, sena_mask	<u> </u>
Jue	TuneSetNA	ont	dx, al	•
Mov	edx, [ebp].IOSynthSerControlAddr	ret		
ri.	al, dx			
and	al, NOT SENA_MASK dx, al	TuneSharpCustom:	n: edx, [ebp].IOSvnthSerControlAddr	
A OE	axx. 2ch	ri e	al, d	
Cmp	[ebp].TunerTypeFound, SHARP	out	at, NOT SENA_FASS dx, al	
je	TuneProgruner			
TuneProgTuner:	למא, טפנוו	NOE .	edx, [ebp].IOSynthSerControlAddr al. dx	<del></del> -
mov	ecx, 8	and	al, NOT (SCLK_MASK OR SDATA_MASK)	
1			מיץ, מד	
nov in	edx, [ebp].IOSynthSerControlAddr al. dx	NOE E	eax, 50h OR 8001h	
20 0		call	eco, to Progruner	
		<b>&gt;</b> 0#	edx, [ebp].IOSynthSerControlAddr	
vom	edx, [ebp].IOStatusAddr a1, dx	ni o	al, dx al, SENA_MASK	
u		out	dx, al	

				time.			* * * *																		*		
	EBP Preserved ESI Preserved EDI Preserved	Flags:	Note: Interrupts preserved,	This routine is called by DriverCallBack. It can be called at process or interrupt ti			\*************************************	Synchrymscace proc	DebugMask, 0	SynthPrgmStateNoMsg eax, offset SynthPrgmMsg	eax, LastDebugMessage SynthPrgmStateNoMsg	LastDebugMessage, eax	eax DPCScreen	OutputToScreen esp, [esp + (2 * 4)]	omsg: Tune		leppl.Nextcoate, Ac <u>u_</u> rD SynthPrgmClearT2	[ebp].MaxSqf, 0 [ebp].SqfAvg, 0	.SqfWait, [ebp].Sqfc .MaxCount,	ebp].T2Count, 60  ebp].CurrentState, ACQ_PD_DELAY	.:	[ebp].T2Count, 0 [ebp].CurrentState, ACQ_PD_DELAY		cqPDbelayState	BEGIN_MANUAL_ENTRY ( AcqPDDelayState, DPC/API/ACQPDDS )	AcqPDDelayState	Acquisition State Routine.
**************************************		· <u>·</u> ·· ·		; Remarks:	; See Also:	; END_MANUAL_ENTRY	** ** ** ** ** ** ** ** ** ** ** ** **	SynthPromState	đươ	) e	cmp je	NOE G	usnd	call	SynthFromStateNoMsg:   call Tune	NOE	cing jne	YOM YOM	NOM NOM	mov	:  SynthPrgmClearT2;	NOM .		/n chPr	BEGIN_MANUAL_	; Name:	, Description:
The half then the ten and the state of the s																					( Sá						_
77 dpc.386	edx, [ebp].IOStatusAddr al, dx al, dx	., [ebp].IOSynthSerControlAddr dx	NOT SENA_MASK	(ebp).ChannelNumber			ecx, 11 Drogminer	, edi		, 9 gTuner	edx, [ebp].IOSynthSerControlAddr	dx Gena Mask	al	ebp].IOStatusAddr	άχ	(ebp).IOSynthSerControlAddr	NOT SENA_MASK	·	SynthPrgmState	*************	BEGIN_MANUAL_ENTRY( SynthPrgmState, DPC/API/SYNTHPS	SynthPrgmState	Acquisition State Routine.	N/A Frame Data Space N/A	N/A Adapter Data Space N/A N/A		
46:01	mov edx, in al, in al,	mov edx, in al, c	al, dx,	mov eax,		div ecx mov edi,			shl eax,			in al,	,1	, edx,	in al,	mov edx,	al,		1:	*************	IN_MANUAL_ENTRY	Name: Synth	Description: Acqui	On Entry: EAX EBX ECX ECX	EUX EBP ESI		,

Thu Jul 17 14:46:01 1997	2661 10	dpc.386		Page 51 TRU Jul 7 14846 BM 1997	dpc.386	Page 52	c 52
	ECX			AcqPDDelayExit: ret		b	-  -
	EBP ESI EDI	Adapter Data Space N/A N/A	<u>د</u>	AcqPDDelayState subtl	endp AcqPDState		
• •• •	Note:	Interrupts are in any state,	_ :	a fired	ರಿಕ್ಕರ್ಗೆ 		
; On Return:	EBX	Destroyed Preserved		BEGIN_MANUAL_	State, DPC	*********	
	EDX	Destroyed Destroyed		Name:	AcqPDState		
	E S I	rreserved Preserved Preserved		Description:	Acquisition State Routine,		
·	Flags:			On Entry:			
***	Note:	Interrupts preserved.			ECX N/A EDX N/A		
Remarks:	This ro It can	This routine is called by DriverCallBack. It can be called at process or interrupt time.	ck. pt time.				
; ; See Also:					Note: Interrupts are in any state.		
; END_MANUAL_ENTRY	NTRY			On Return:	EAX Destroyed		
*****	*****	***********************					
,   public   AcqPDDelayState		AcgPDDelayState proc			EDA DESCROYED EBP Preserved ESI Preserved		
cmp	DebugMask, AcqPDDelay	DebugMask, 0 AcqPDDelayStateNoMsg			Flags:		
cmp	eax, Lac	eax, lastDebughesage	•		Note: Interrupts preserved.		
nov mov	Acqrube LastDebu eax	Acqrubelaystatenomsg LastDebugMessage, eax eax		Remarks:	This routine is called by DriverCallBack.	Q E	
push call	DPCScreen OutputToScreen			See Also:			
lea esp, AcqPDDelayStateNoMsg:	esp, (e: NoMsg:		••	END_MANUAL_ENTRY	ΥΥ		
cmp jne	<pre>{ebp}.T2Count, AcqPDDelayExit</pre>	2Count, 0 layExit		********	化电子电子电子 电电子电子电子电子电子电子电子电子电子电子电子电子电子电子电子电	\**********	
> 0 E	edx, (ek al, 87h	[ebp].IOSweepRateAddr 7h 1	, '	; public AcqPDState	AcqPDState proc		
2 AOE		[ebp].IOAfcControlAddr		cmp je	DebugMask, 0 AcqPDStateNoMsg		-
i in and	ヤマ	dx NOT SQF_PEAK_EN_MASK		cmp	eax, offset AcqPDMsg eax, LastDebugMessage		
ont	dx, al		-	je mov	AcqPDStateNoMsg LastDebuqMessage, eax		
Nom Nom	eax, [e] [ebp].T2	eax, [ebp].SqfWait [ebp].T2Count, eax		push push			. <u>.</u>
Nom Mov	eax, [eb [ebp].Cu	eax, [ebp].NextState [ebp].CurrentState, eax	Ac	lea AcqPDStateNoMsg:			
NOM.	edx, [eb	[ebp].IOAfcControlAddr		cmp jne	(ebp).T2Count, 0 AcqPDExit		
out		SQF_PBAK_EN_MASK al		Xor mov in	eax, eax edx, [ebp].IOMaxSqfAddr al, dx		
				,			_

Thu Jul 17 14:46:01 1997	dpc.386	The 53 (The milet 17) \$4 46:0(11997	Mi1997 dpc.386 Page 54
add	[ebp].SqfAvg, eax	Name:	EnableBTRState
cmp	eax, [ebp].MaxSqf AcqPDDecMaxCount	) Description:	Acquisition State Routine.
Nom Nom	<pre>[ebp].MaxSqf, eax eax, [ebp].TuneCount [ebp].BestTuneCount, eax</pre>	) On Entry:	N/A Frame Data Si N/A N/A
AcqPDDecMaxCount: dec [	nt; [ebp].MaxCount AcgPDMaxCountNotZero	** ** ** ** 	Adapter Data Space N/A N/A
mov mov	edx, [ebp].IOSweepRateAddr al, 8ah dx, al	) On Return:	 o
mov mov out shr mov	edx, [ebp].IOCountNomLowAddr eax, [ebp].BestTuneCount dx, al eax, 8 edx, (ebp].IOCountNomHighAddr dx, al		ECX Destroyed EDX Destroyed EDP Preserved ESI Preserved EDI Preserved
mov mov shl	edx, [ebp].IoCountDeltaAddr eax, [ebp].SqfDeltaCount eax, 1 dx, al	Remarks:	Note: Interrupts preserved. This routine is called by DriverCallBack. It can be called at process or interrupt time.
mov mov xor div add	eax, [ebp].SqfAvg ecx, [ebp].SqfCheckPoints edx, edx ecx, 2 [ebp].SqfAvg, eax	See Also:   END_MANUAL_ENTRY   ************************************	VTRY ************************************
mov mov AcqPDExit: ret	[ebp].T2Count, 40 [ebp].NextState, ENABLE_BTR [ebp].CurrentState, ACQ_PD_DELAY	public EnableBTRState cmp je mov	EnableBTRState proc DebugWask, 0 EnableBTRStateNoMsg eax, offset EnableBTRMsg
AcqPDMaxCountNotZero: adv eax, add eax, mov [ebp]	otZero: eax, [ebp].TuneCount eax, [ebp].SqfCheckStepSize [ebp].TuneCount, eax edx, [ebp].TOCountNomLowAddr	cmp eax, je Enab mov Last push eax push DPCS call Outp last lessy, EnablePTRStareNOMSG	eax, LastDebugMessge EnableBTRStateNoMsg LastDebugMessage, eax eax DPCScreen OutpurToScreen esp + (2 * 4)]
mov shr		mov in or	edx, [ebp].IOBtrControlAddr al, dx al, BTR_ERR_ENA_MASK dx, al
mov mov ret	[ebp].T2Count, 20 [ebp].CurrentState, ACQ_PD_DELAY	mov ret	[ebp].CurrentState, START_SEARCH_FOR_FEC
AcqPDState subt1 page	endp EnableBTRState	EnableBirState subtel page	enap StartSearchForFECState
BEGIN_MANUAL.	BEGIN_MANUAL_ENTRY( EnableHTRState, DPC/API/ENBTRST )	BESTER MARITAL	BESTEN MARBAL ENTRY (Start GoarchPorfECState, DPC/API/SECHEEC)

Thu Jul 17 14:46:01 1997	an come case anno more come come	7001 1/99E-7712 LIBETER 1000	18 1007 St. 2007
, Name:	tSearchForFECState		[ebp].IOCthAddr
; Description:	Acquisition State Routine.	ont	dx, al
) On Entry:	EAX N/A EBX Frame Data Space ECX N/A FDX N/A	mov in and	edx, [ebp].IOAfcControlAddr al, dx al, NoT SWP_ENA_MASK dx, al
		mov in or	edx, [ebp].IOSynthSerControlAddr al, dx al, RESET_FEC_ACQ_MASK dx, al
On Return:	EAX Destroyed EBX Preserved ECX Destroyed EDX Destroyed EBP Preserved ESI Preserved EDI Preserved	mov i mov in and out	<pre>{ebp].TlCount, 300 edx, [ebp].IOSynthSerControlAddr al, dx al, NOT RESET_FEC_ACQ_MASK dx, al</pre>
	Flags: Note: Interrupts preserved.	StartSearchFo	StartSearchForFECState endp subtt1 CheckforFECLockState page
Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time.	* * * * * * * * * * * * * * * * * * * *	
See Also:	Variable	Name:	DESTIN_TANDAL_ENIRI CHECKIOFFECLOCKSTATE, DFC/AFI/CHKFEC ) Name: CheckforFECLockState
Na - Consultation		; Description:	: Acquisition State Routine.
public StartS StartSearchForFECState Cmp DebugM je StartS	earchForFECState  proc ask, 0 earchForFECStateNoMsg ffset StartSearchForFECMsg	on Entry:	EAX N/A EBX Frame Data Space ECX N/A EDX N/A EBP Adapter Data Space ESI N/A EDI N/A
cmp je mov push cal alea StartSearchForF	cmp eax, LastDebugnessage je StartSearchForFECStateNoMsg mov LastDebugMessage, eax push eax push DPCScreen call OutputToScreen lea esp, [esp + {2 * 4}] StartSearchForFECStateNoMsg: cmp [ebp].PointingFlag, 0 je SearchFECNotPointing	on Return:	Note: Interrupts are in any state.  EAX Destroyed EBX Preserved ECX Destroyed EBP Preserved EBP Preserved ESI Preserved EDI Preserved
mov mov add	[ebp].CurrentState, POINTING_ACQ eax, [ebp].SqfAvg eax, 2	·· <u>·</u> · ·· ··	Flags: Note: Interrupts preserved.
mov [ebp] jmp Searc	[ebp].MaxSqf, eax SearchFECSetMax nting:	; Remarks:	This routine is called by DrivercallBack. It can be called at process or interrupt time.
mov mov add	<pre>(ebp).CurrentState, CHECK_FOR_FEC_LOCK eax, [ebp].SqfAvg eax, [ebp].AaxSqf.eax</pre>	See Also: END_MANUAL_ENTRY	SNTRY
SearchFECSetMax:		;; public	CheckforFECLockState

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CheckforFECLockState	proc	test	CRL_LOCK_MASK
cmp je mov	OI -34	Jne cmp jbe	Checkfectaric eax, [ebp].MaxSqf eax, [ebp].SqfAvg CheckFectaric
je je mov	eak, bastchoughtesage CheckForFECLockStateNoMsg LastDebugMessage, eak	Qns Aom	eax, 2 [ebp].MaxSqf, eax edx, [ebp].TOC+baddx
dsug		out	dx, al
call OutputToSc lea esp, (esp CheckForFECLockStateNoMsg:	OutputToScreen esp, [esp + (2 * 4)] ckStateNoMsg:	CheckforFECLoc subttl	CheckforFECLockState endp
mov	usAddr	250d	***************************************
and je	al, FEC_LOCK_MASK CheckFECNotLocked	; ; BEGIN_MANUAL	DPC/API/SETOTHER )
AOH .	[ebp].DemodStatus, LOCKED [ebp].PecStatus, LOCKED	, Name:	SetotherModeState
NOM.	edx, [ebp].IOGateCountHighAddr	; Description:	Acquisition State Routine,
xor		; on Entry:	
> om 0 m	edx, [ebp].IOCountDeltaAddr eax, [ebp].ReacgDeltaCount		N/A N/A Adapte
ont	er .	~ ~	ESI N/A EDI N/A
in			Note: Interrupts are in any grate
and	al, NOT (FREQ_PWR_MASK OR PHASE_PWR_MASK)		
a u		; On Return:	EAX Destroyed EBX Preserved FCX Destroyed
or	5 al		
NOW N	[ebp].NextStepCount, 1		ESI Preserved EDI Preserved
> > > > > > > > > > > > > > > > > > >	<pre>texprit_count, sec [ebp].Taccount, sec [ebp].CurrentState, TRACKING</pre>	** ** **	Flags:
r ret			Note: Interrupts preserved.
CheckFECNotLocked:		; Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time.
cmp	ebp .TlCount,	; See Also:	
you r:	edx, [ebp].IOStatusAddr	; END_MANUAL_ENTRY	NJRY
test	al, CRL_LOCK_MASK CheckFECSetOtherMode	* * * * *	*
mov	[ebp].CurrentState, INIT	public S SetOtherModeState	SetOtherModeState ate proc
CheckFECSetOtherMode: mov [ebp] CheckFECExit: ret	erMode: [ebp].CurrentState, SET_OTHER_MODE	cap je nov cap	DebugMask, 0 SetOtherModeStateNomsg eax, offset SetOtherModeStateMsg eax, LastDebugMessage SetOtherModeStateNomsg
CheckFECHaveTlCount: mov edx, in al,	Count: edx, {ebp}.IOStatusAddr al, dx	mov push push call	LastDebugMessage, eax eax DPCScreen OutputToScreen

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SetOtherModeStateNoMsg:	ateNoMsg:	; On Return:	EAX Destroyed
mov in cmp jne	edx, [ebp].IOSynthSerControlAddr al, dx [ebp].ViterbiMode, LOWRATE SetOtherModeToLow		ECX Destroyed EDX Destroyed EBP Preserved ESI Preserved
or	al, MODE_MASK dx, al		bul Preserved Flags:
wom qmt	<pre>(ebp).ViterbiMode, HIGHRATE SetOtherModeIncRate</pre>	· · ·	Note: Interrupts preserved,
SetOtherModeTo and out	SetOtherModeToLow: and al, NOT MODE_MASK out dx, al	; Remarks:	This routine is called by TrackingState, PointingAcquisitionState and PointingTrackingState It can be called at process or interrupt time.
Nom	<pre>(ebp).viterbimode, LOWRATE</pre>	; See Also:	Adult
SetOtherModeIncRate:	cRate: [ebp].RateCount	***********	/*************************************
cmp jg	<pre>(ebp).RateCount, 1 SetOtherModeExit</pre>	) public ReadWord	ReadWord proc
mov i	edx, [ebp].IOSynthSerControlAddr	ysnd	epx
or	al, RESET_FEC_ACQ_MASK dx, al	x or mov	
>om	[ebp].TlCount, 180	NOM .	aı, uz bh, al
nov in and	edx, [ebp].IOSynthSerControlAddr al, dx al, NOT RESET_FEC_ACQ_MASK dx, al	mov ReadWordLoop: mov in	ecx, 4 edx, esi al, dx
mov	[ebp].CurrentState, CHECK_FOR_FEC_LOCK	VOM m	
SetOtherModeExit: mov [ ret	it; [ebp].CurrentState, INIT	in cmp je	al, dx al, bh ReadWordExit
SetOtherModeState   subtl	ate endp ReadWord	mov dec jne	bh, al ecx ReadWordLoop
****		ReadWordExit: mov	eax, ebx
BEGIN_MANUAL	REGIN_MANUAL_ENTRY( ReadWord, DPC/API/READWORD )	dod	ebx
) Name:   Description:	dWord uisit	rec ReadWord subttl page	endp TrackingState
) On Entry:	EAX N/A EBX Frame Data Space ECX N/A EDX N/A EBP Adanter Data Space	BEGIN_MANUAL_	BEGIN_MANUAL_ENTRY( TrackingState, DPC/API/TRCKST )
		Name: Description:	TrackingState Acquisition State Routine.
	Note: Interrupts are in any state.		

Thu Jul 17 14:46:01 1997	2661 103	dpc.386	The Hart Spire Spi	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	dpc.386 Page 62
; On Entry:	EAX EGX	N/A Frame Data Space N/A		TrackingStateReadQuality: xor eax, eax mov edx. febn	TORe]SafAddr
	EBP	N/A Adapter Data Space N/A		ni	
	EDI	N/A N/A		cmp	DebugKask, 0
	Note:	Interrupts are in any state.		cmp	SignalStrengthnomsg LastsignalStrength, 0 SignalStrengthnomsg
; On Return:	EAX	Destroyed Preserved		0 0 0	LastSignalStrength, 1
** **	ECX	Destroyed Destroyed		cmp	200 alStrengthNone
	ESI EDI	Preserved Preserved Preserved		sub sh1	eax, 200 eax, 1 eax, 60
	Flags:			jmp SignalStrengthNone:	. ຊີ
• • • •	Note:	Interrupts preserved.		xor eax, Signal StrengthPrint:	eax, eax
; Remarks:	This rou It can b	routine is called by DriverCallBack In be called at process or interrupt	ik it time.	usnd usnd	eax offset SignalStrengthMsg DPCScreen
; See Also:				call	OutputToScreen esp, [esp + (3 * 4)]
; END_MANUAL_ENTRY	NTRY			Signal StrengthNoMsg:	NOMSG:
****	* * * * * * * * * * * * * * * * * * * *	****	\*************	cmp	[ebp].TlCount, 0 TrackingStateExit
public TrackingState	TrackingState proc	gState		AOE A	[ebp].TlCount, 1000
dwo	DebugMask,	3K, 0		) E	lebb).IrackIngMode, 1
mov	eax, off	Trackingstatenomsg eax, offset TrackingStateMsg		NOE	edi, [ebp].IOTuningHighAddr esi, [ebp].IOTuningLowAddr
Je	Tracking	eax, LastLebugmessage TrackingStateNoMsg Lactloburmessano		Call	Readword (ebp).Drift, eax
daug	eax			NOE .	2 MOM CONTRACTOR CONTRACTOR
call call	OutputToScreen	in Screen p + (2 * 4)1		Ja ja	eax, NOM_COUNT_TRACK + OFFSET_THRESHOLD TrackingstateLocFound
TrackingStateNoMsg:	: £swo	i		duo	eax, NOM_COUNT_TRACK - OFFSET_THRESHOLD
Nom	٦.	[ebp].IOStatusAddr		AOE .	TrackingstateLocfound
test jne	al, FEC_ Tracking	al, un al, FEC_LOCK_MASK TrackingStateReadQuality		IrackingscateLocround: mov (ebp). mov (ebp).	ocrona: {ebp}.SearchLoc, ecx {ebp].SearchLocFound, TRUE
ů	al, dx			TrackingStateExit: ret	xic:
rest je	al, CRL Tracking [ebp].T2	al, CRL_LOCK_MASK TrackingStateZero febbl.T2Count. 0		TrackingState	endp Pointing Access 1
Jne	TrackingStateT1	StateT1		page	
TrackingStateZero;   mov [e	ero: [ebp].Tr	o: [ebp].TrackingMode, 0		* * * * * * * * * * * * * * * * * * * *	
ret	no. (diginal)			, becingwhich.	becin_manuab_eniki PoincingAcquisicionState, DPC/API/PTACOST )
TrackingStateT1:	l: [ebm]_m1Count_	Count. 1000		Name:	ForntingAcquisitionState
ret	2	) ) )		י הפכר והריחון:	ערלתזפורזסון פרשרם עסתרזונהי
_				; On Entry:	EAX II/A

Thu Jul 17 14:46:01 1997		Included the first flow that the Parent	Pare 63 Thundul 17 14 6601 1997	1997 dpc.386 Page 64
N N N A			in or out	al, dx al, 5 dx, al
	ESI N/A EDI N/A		NOE E	[ebp].NextStepCount, 1
·	Note: Interrupts are in any state.		Nom w	[ebp].SearchlocFound, FALSE
; On Return:			н Ф П	
	ECX Destroyed EDX Destroyed		PointingNotSweeping:	ning: eax. [ebn] MaxScrf
~ ~	EBP Preserved ESI Preserved		qns	eary, 275,
•= ••			mov	
	Flags:		ono Omo	dx, al [ebp].TlCount, 0
· • • • • • • • • • • • • • • • • • • •	Note: Interrupts preserved,		ou(	PointingAcqExit
Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time.	ck. pt time.	mov PointingAcqExit:	[ebp].CurrentState, INIT
; See Also:			rec	
; END_MANUAL_ENTRY	INTRY		PointingAcquisitionState subttl Point	ionState PointingTrackingState
*******	****************	**********	page ;	
; public Pointing PointingAcquisitionState	PointingAcquisitionState itionState		; BEGIN MANUAL E	**************************************
cmp je	DebugMask, 0 PointingAcquisitionStateNoMsg		, Name:	PointingTrackingState
шол сшр	<pre>eax, offset PointingAcqStateMsg eax. LastDebucMessage</pre>		; Description:	Acquisition State Routine.
je			; On Entry:	EAX N/A EBX Frame Data Grace
ysnd			• • •	N/A
push	DPCScreen OutputToScreen			
lea PointingAcquisi	lea esp, [esp + (2 * 4)] PointingAcquisitionStateNoMsg:			ESI N/A EDI N/A
Nom.	edx, [ebp].IOStatusAddr		•••	Note: Interrupts are in any state,
na rest	al, SWEEPING_MASK		; On Return:	
9	FOLINCA TOWNS SEPTING		•••	EBX Preserved ECX Destroyed
>0E	esi, (ebp).iOluningLowAddr edi, (ebp).IOTuningHighAddr		•• ••	EDX Destroyed EBP Preserved
call shl	Readword eax, 4			ESI Preserved
ЛОШ	[ebp].Drift, eax			-
Nom	[ebp].DemodStatus, LOCKED			
xor				Note: Interrupts preserved.
ont	edx, [ebp].ludatecounthighAddr dx, al		Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time.
Nom in	edx, [ebp].IOBtrControlAddr al, dx		; See Also:	
and	al, NOT (FREQ_PWR_MASK OR PHASE_PWR_MASK) dx, al	К.)	; END_MANUAL_ENTRY	

Thu Jul 17 14:46:01 1997		dpc.386	Mr. Sull Par Sant Jan San San San	Page 65 T	Presesting In 17-14-4 (191 1997	11997	dpc.386	Page 66
; public Point: PointingTrackingState	ingTrackingStat				On Return:	EAX	interrupts are in any state. Destroyed Preserved	
cmp je mov cmp	DebugMask, 0 PointingTrackingStateNoMsg eax, offset PointingTrackStateMsg eax, LastDebugMessage	eNoMsg TrackStateMsg				BCX EDX EBP ESI EDI	Destroyed Destroyed Preserved Preserved	
Je mov	Foincingirackingscacewomsg LastDebugMessage, eax	SWONS K				Flags:		-
push push	DPCScreen OutputToScreen					Note:	Interrupts preserved,	
lea esp +	esp, [esp + (2 * 4)] ngStateNoMsg:			<u> </u>	Remarks:	This ro It can	is routine is called by DriverCallBack. can be called at process or interrupt time.	<del></del>
xor mov	eax, eax edx, [ebp].IORelSqfAddr al. dx	ldr		· · · ·	See Also:			
NOM.	p].SignalQuality,	еах			END_MANUAL_ENTRY	JTRY		
cmp je	<pre>[ebp].TICount, 0 PointingTrackingExit</pre>				***	*	\	
мом	[ebp].TlCount, 1000			Ä.	public HaltState	HaltState proc	ıte	
mov mov call	esi, [ebp].IOTuningLowAddredi, [ebp].IOTuningHighAddr ReadWord	owAddr ighAddr			cmp je mov		DebugMask, O HaltStateNoMsg eax, offset HaltStateMsg	
mov	ecx, [ebp].Drift ecx, OFFSET_THRESHOLD			-	cmp je mov		eax, LastDebugMessage HaltStateNoMsg LastDebugMessage, eax	-
cmp ja	eax, ecx PointingTrackingInit				dsug dsh	eax DPCScre	eax DPCScreen	
qns				H.	cail lea HaltStateNoMsg:	esp, [e	oscreen sp + (2 * 4)]	
cmp jae	eax, ecx PointingTrackingExit				r r re	,		
PointingTrackingInit mov [ebp	<pre>IgInit:</pre>	NIT			HaltState   subttl   page	endp InitDemod	Demod	
PointingTrackingExit ret	ıgExit:			*	* * * * * * * * * * * * * * * * * * * *	****	\*************************************	
PointingTrackingState	igState endp				BEGIN_MANUAL_	ENTRY ( I	BEGIN_MANUAL_ENTRY( InitDemod, DPC/API/INITDMOD )	
subttl page	1 t.S				Name:	InitDemod	po	
*	********	*******		· ·· <u>·</u> ·	Description:	Acquisition	tion State Routine.	·····
; BEGIN_MANUAL_)	altState,	DPC/API/HALTST )		- ** **	On Entry:	EAX	N/A Frame Data Space	
, Name:	HaltState			•• ••		ECX		
	ıisit	tine.				ESI EDI	Adapter Data Space N/A N/A	
; On Entry: ;	ne Data	Space				Note:	Interrupts are in any state,	
	N/A Adapter Data N/A N/A	Space			On Return:	EAX EBX ECX ECX EBP	Destroyed Preserved Dostroyod Dostroyod Prosorved	
								-

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	ESI Preserved EDI Preserved	đođ đođ	
•••••	Flags:	InitDemodSharpCustom:	Custom:
	Note: Interrupts preserved.	cmp jne	al, SHARP_CUSTOM InitDemodExit
Remarks:	This routine is called by DriverCallBack. It can be called at process or interrupt time,	cmp	DebugMask, 0 FilinTunerVars
; See Also:		usnd usnd	eax offset SharpCustomTunerMsg
; END_MANUAL_ENTRY	INTRY	push call	rreen
*****	<ul><li>一次分析者以及其实的表示。</li><li>1.</li></ul>	dod bob	esp, [esp + (2 * 4)] eax
, public InitDemod	: InitDemod proc	FillInTunerVars	(ebp) .TunerTypeFound,
Nom Nom	[ebp].CurrentState, HALT	nov mov	.ReacgGateCount, Of0h .ReacgDeltaCount, 2
NOE I		NOM.	.NomCountSearch, NOM .SqfCheckPoints, 11
NOM MOV	(epp).Demodrommand, HALI_MODE (ebp).SearchLoc, 1	Nom	<pre>[ebp].SqfCheckStepSize, 15 [ebp].SqfDeltaCount, 8</pre>
Nom I		InitDemodExit: ret	
A COURT	(ebp) .trackingmode, FALSE	InitDemod	apua
, value	ij	, subttl page	ApplyDelay
NOW MON	edx, edx edx, [ebp].IOStatusAddr	******	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
in and		; ; BEGIN_MANUAL_	BEGIN_MANUAL_ENTRY( ApplyDelay, DPC/API/APPLYDEL)
Nom -	ci, al	ome N	
, value	= read_bits (UNIT_ID_ADDR, TUNER_TYPE_2_MASK); edx, {ebb ,IOUnitIDAddr		1 1 1
.i	al, dx	י הפינולינים י	Acquistrion state Koutine,
and	al, TUNER_TYPE_2_MASK al, cl	; On Entry:	
cmp	al, SHARP		K K N N
Jue	IntDemodranasonic		EBP Adapter Data Space
cmp	DebugMask, 0 FillnTunerVars	. •. •-	EDI N/A
usnd	eax offset SharpTunerMsq		Note: Interrupts are in any state,
hsnd	DPCScreen	; On Return:	
Call	OutputToScreen esp, {esp + (2 * 4)}		EBX Preserved ECX Destroyed
đơd đuị,	eax FillnTunerVars		
InitDemodPanasonic:	onic:		ESI Preserved EDI Preserved
cmp jne	al, PANASONIC InitDemodSharpCustom		gs:
cmp	DebugMask, O FillinTunerVars	·- ·- ·	Note: Interrupts preserved.
hsuq !	eax offset PanasonicTunerMsg	; Remarks:	This routine is called by DriverCallBack, It can be called at process or interrunt rime.
push call lea	DPCScreen OutputToScreen ' esp. fest + (2 * 4)1	; See Also:	
1			

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· 化二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二甲基二	Remarks: This routine is called by DriverCallBack.	time.
public ApplyDelay ApplyDelay proc	; See Also:	
) Apply delay to T1 Counter	ENTRY	
cmp je cmp	; ************************************	· · · · · · · · · · · · · · · · · · ·
<pre>jb ApplyDelayClearTl sub [ebp].TlCount, eax jmp ApplyDelayT2</pre>	; USHORT_T freq, total, new_total, results; sub esp, 2 * 4	
arTl	; total = [esp + 0] ; results = [esp + 4] ; from = psi	
Apply delay to 12 councer	; new_total = edi	
ApplyDelayT2:	; freq = S.Rx_Freq - FREQ_BASE; ; freq += S.GL_offset; mov esi, [ebp].RxFreq sub esi, FREQ_BASE add esi, [ebp].GLOffset ; ESI = freq	
ApplyDelayClearT2: mov [ebp].T2Count, 0	tota	
ApplyDelayExit: ret	edx, t ; bAA = 11eq = edx, edx ecx, 729	
ApplyDelay endp subttl CalculateRxFreg	mov (esp + 0), eax ; total = EAX	
\*************************************	ecx, 729 ; EAX = total **	729
; BEGIN_MANUAL_ENTRY( CalculateRxFreq, DPC/API/CALCRXFQ )	EAX	
; Name: CalculateRxFreq	; freq = freq - results;	
; Description: Acquisition State Routine.	, 100 T	
	ov eax, [esp + 0]	
N/A N/A	ecx ; EAX = total ' edi, eax ; new_tottal =	. 10 EAX
) EBP Adapter Data Space   ESI N/A   EDI N/A	tota	
Note: Interrupts are in any state.	mov ecx, zv ; EAX = freq * 20 xor edx, edx	
) On Return: EAX Destroyed ; EBX Preserved ; ECX Destroyed ; FDX Destroyed		
EBP Preserved  ESI Preserved  EDI Preserved	; results = (total * 729) / 20; mov ecx, 729 mul ecx xor edx, edx	729
Flags:	e c x	

Thu Jul 17 14:46:01 1997	(esp + 4), eax	dpc.386 Law ten and the first	Page 7 F 9 hu Ja 12 12 4 4 6 9 1 1997	dpc.386 dpc.386
			, Name:	DriverCallBack
gns ;	q = freq - results; esi, eax		; Description:	This routine will be executed once every second. It
, new_add	new_total += total; edi, [esp + 0]			detect if the hardware does not ack a transmission. If the hardware didn't ack then it will be reset, the transmission of that packet will be aborted and the next packet in the
, new	new_total *= 10;			ducte will be sent if there is one.
mov mu1		; BAX ≈ new_total * 10	; on Enery:	EAX N/A EBX @ Frame Data Space ECX N/A
NOE!	, eax	; EDI :		
# tota	total = (freq * 200) / 729; eax, esi	29;	- Ang Ang	N/A N/A
om to the state of		; EAX = freq * 200		Note: Interrupts are disabled.
de d	ecx, 729 ecx 729 ecx [esp + 0], eax	; EAX = EAX / 729 ; total = EAX	; On Return:	EAX Destroyed EBX Preserved FCY Destroyed
resu	= (total * 729)			
	ecx, 729 ecx	; EAX = total * 729	•• ••	ESI Destroyed EDI Destroyed
	edx, edx ecx, 200	; EAX = EAX / 200	·	Flags:
A C B	ecx [esp + 4], eax	; results = EAX	** **	Note: Interrupts disabled.
sub e	q = freq - results; esi, eax		.; Remarks:	This routine is called by the MSM. After this call returns, the MSM will schedule another
; new_	<pre>new_total += total; edi. [esp + 0]</pre>		· · · ·	call back. It is called at interrupt time.
			; See Also:	MSM\MSMCallBackProcedure
Can of the	(freq >= 2) new_total++; esi, 2 CalcorchannelNumber	<del>-</del>	; END_MANUAL_ENTRY	ENTRY
: inelNu	edi Imber:	; new_total++	*******	
s.Ch.	_Number = SYNTH_ SYNTH_FIRST_CHAN .ChannelNumber,	FIRST_CHANNEL + new_total; NNEL edi	public align DriverCallBack	c DriverCallBack 16 c proc
	ugMask, O hannelMsg		cmp jne call	[ebp].TunerTypeFound, INVALID_TUNER DemodInitialized InitDemod
usnd 	edi offset ChannelNumberMsg	DS1	; ; Check Rx Frequency	duency
	outputToScreen esp, {esp + (3 * 4)}		modIni	[ebp].RxFreq, 1330 * 10
	esp. 2 * 4		yom '''	callbacktheckState [ebp].RxFreq, 1330 * 10
			cmp jne	
Calculatexxred e	endp DriverCallBack		Nom ;	eax, GlobalRxFreq
page			; RxFreq = GlobalRxFreq	bbalRxFreq • 10
****	****************			ecx, 10
, BEGIN_MANUAL_E	BEGIN_MANUAL_ENTRY( DriverCallBack,	DPC/API/CALLBACK )	now.	ecx [ebp].RxFreg, eax

*/ 01.1				in the e and imer.												\ * * * * * * * * * * *			۸.	yet? ; Give i			L.
		. 4	2	the packet described in the the send. TxStartTime and enable the deadman timer.			.ed.					called by the MSM media module, process or interrupt time.		£1		***********			; ARP(UXU8 UXU6); Jump if it is	; Can we send it			Give it to Slip Handlor
dpc.386	p erSend DriverSend	BECTN MANITAL SNIMBY DY VINGE COND DO / BD / CEND		This routine will transfer the p TCB to the NIC and initiate the RetryCounter must be set to enab	N/A G Frame Data Space	N/A @ Adapter Data Space @ TCB N/A	Interrupts are disabled	Destroyed Preserved Destroyed	Preserved Preserved Destroyed Destroyed		Interrupts disabled.	This routine is called by the It is called at process or in	ETHERTSM\EtherTSMDriverSend ETHERTSM\MediaSendRaw8023	ETHERTSM\MediaSendethernet II ETHERTSM\MediaSendEthernet II	SM\MediasendaU22Snap	***********			word ptr (ed1+12), U6U8h DriverSendArp	[ebp].AgentSendRoutine, 0 DriverSendExit			[ebp].AgentSendRoutine ; Giv
40H 1997	k endp c DriverS 1 Dri	. FMTPV	DriverSend		EAX	EDX EBP ESI EDI	Note:	EAX EBX ECX ECX	ESI EDI	Flags:	Note:	This r It is	ETHERT	ETHERT	ETHEKT	ANUAL_ENTRY ** *** * * * * * * * * * * * * * * * *	16 proc	edi,	word p Driver	[ebp]. Driver	e c x	rcB	(epb)
Rake 23/21/11/11/14 17:14/2/6/01 1997	DriverCallBack endp public DriverSend subttl Driver page	ATINAM NTOGE	Name:	; Description:	) j On Entry:			; On Return:				Remarks:	See Also:		·	; END_MANUAL_ENTRY ; ;***************	, align DriverSend	lea	പ് വ്	cmp je	usnd	; Padded size push ; Address of	call
F. U. T.		mmand								-				•	; LocalMipsStats.zeroAdd								
dpc.386	FALSE ACQUIRE_MODE	ending on DemodCommand	ACQUIRE_MODE	POINTING_MODE	FINI	HALT_MODE HALT			tate 4]			unt ferCount		:	Addrirames	Rejected ted, eax		ຫ			אר		
1997	[ebp].TrackingMode, FALSE CheckRxFreqSetMode CalculateRxFreq ode: [ebp].DemodCommand, ACQUIRE_MODE	the CurrentState depending	te: [ebp].DemodCommand,	CallBackSetInit (ebp).DemodCommand, CallBackCheckHalt	[ebp].CurrentState, CallBackApplyDelay CallBackWatchDog	<pre>Lt: [ebp].DemodCommand, CallBackApplyDelay [ebp].CurrentState,</pre>		ay: eax, 15 ApplyDelay	<pre>eax, [ebp].CurrentState esi, StateTbl[eax * 4] esi</pre>	=		eax, [ebp].BufferCount eax, [ebp].WatchBufferCount [ebp] WatchBufferCount_eax	CallBackExit	RefreshMipsStats	eax, [ebp],MlpsZeroAddrFrames	eax, [ebp].WatchOldRejected [ebp].WatchOldRejected, eax CallBackExit	DriverISR	edx, [ebp].PicAddress al, dx	eax, [ebp].PicMask		eax, [ebp].PicUnMask dx, al	-	
Thu Jul 17 14:46:01 1997	cmp (eb je Che call Cal CheckRxFreqSetMode:	Possibly set t	CallBackCheckState:	Je cmp jne CallBackSetInit:	mov call jmp	allBackCheckHal cmp jne mov	Apply delay	callBackApplyDelay: mov eax call App	mov mov call	CallBackWatchDog:	ret	mov		<b>.</b>		cano mov je	call		SLOW	÷ -		CallBackExit:	

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Thu Jul 17 14:46:01 1997		dpc.386	He had been some some in the hade	Page 75 Thu Jul 17 14:46:01 1997	H 1997 dpc.386		Page 76
dod	esi			mov	word ptr [esi+12], 0608h		
, <u>t</u>				; Set reply has	reply hardware type(0x00 0x01), protocol	type(0x08 0x00)	
				мош	dword ptr [esi+14], 00080100h		
DriverSendExit: inc jmp	.t: [ebp].MSMTxFreeCount EtherTSMFastSendComplete	** **	Add a send resource Otherwise service events.	; Set reply han; and operat	Set reply hardware size(0x06), protocol size(0x04) and operation(0x00 0x02 for ARP reply)	0×04)	
DriverSendArp:	:			) OE	dword ptr [esi+18], 02000406h		
; We're going ; fragment. V	We're going to assume that the entire request fragment. Verify it first.		is in the first	; Set reply ser	senders ethernet addr to (0x06 0x06	0x06 0x06 0x06 0x06).	
	edi, [esi] TCBFragStrucPtr dword ptr [edi+0], 1	•-	One fragment?	Nom Nom	dword ptr [esi+22], 06060606h word ptr [esi+26], 0606h		
	DriverSendExit dword ptr [edi+8], 28 DriverSendExit	; Jump if not ; Entire ARP ; ; Jump if not	Jump if not Entire ARP request(frag length)? Jump if not		senders ip addr to the request targ eax, [edi+38-14]	<pre>target ip addr ; request-&gt;target_ip</pre>	
/ Make sure se	sender and target ip addr	are different	T)	Nom .			
>om	edi, [edi+4]	•	EDI> ARP request		target ethernet addr to our node addr	dr	
mov cmp je	eax, [edi+28-14] eax, [edi+38-14] DriverSendExit	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	<pre>; EAX = senders IP ; Same as target IP? out if it is</pre>	> > > > > > > > > > > > > > > > > > >	eax, dword ptr [ebx].MLIDNodeAddress+0 dword ptr [esi+32], eax ax, word ptr [ebx].MLIDNodeAddress+4 word ptr [esi+36], ax	dress+0 ess+4	
usnd	esi	•	Save send ECB Save ARP offset	; Set reply tar	target ip addr to request senders ip	p addr	
>0m	esi, 1514 MSMAllocateRCB		Max ECB size.	> ou	eax, dword ptr [edi+28-14] dword ptr [esi+38], eax	/ request->senders_ip	
pop or jne	edi eax, eax DriverSendReturnARP		EDI -> ARP request again Jump if no ECB.	pop mov xor	esi edi, 1514 eax, eax	; ESI -> reply ECB ; Max Packet size ; Good packet	_
; ESI -> reply ; EDI -> reques	-> reply ECB -> request data			mov push call	ecx, (esi).RPacketSize ebp EtherTSMFastProcessGetRCB		
lea mov	eax, [esi+RPacketEnvelope] [esi].RPacketOffset, eax	9	; EAX -> beginning ; Store into ECB	pop ebp jne Driv MSMReturnRCB	ebp DriverSendReturnARP 1rnRCB	; Jump if no new ECB ; Return newly allocated E	ECB
NOE NOE	[esi].RPacketLength, (	60 ; (ethernet min	y size et min size)	DriverSendReturnARP:	:nARP:		
yeuq vom	esi esi, eax		Save reply ECB ESI -> reply data	dwi.	est. [ebp].MSMTxFreeCount EtherTSMFastSendComplete	; Add a send resource ; Otherwise service events	
; ESI -> reply ; EDI -> reque	-> reply data -> request data			DriverSend	dpuə		
; Set reply->d	eply->dest_addr to our node address	dress		extrn extrn extrn TestDriverISR	DoEndOfInterrupt: near SetHardwareInterrupt: near ClearHardwareInterrupt: near proc		
Nom Nom Vom	eax, dword ptr [ebx].MLIDNodeAddress+0 dword ptr [esi+0], eax ax, word ptr [ebx].MLIDNodeAddress+4 word ptr [esi+4], ax	MLIDNodeAddre: * IDNodeAddress	58+0 +4	NOM NOM YEAR	ebp, OurAdapterDataSpace ebx, [ebp].MSMDefaultVirtualBoard ecx, [ebx].MIDInterrupt	טפ	<u> </u>
; Set reply->s	reply->source_addr to (0x06 0x00	to (0x06 0x06 0x06 0x06 0x06 0x06)	(06 0x06)	T C	DOEMOCITICE INDE		
	word ptr [esi+6], 0606h	1606h		O 3	_		
MOV 160 1.1	mov aword per lestral, voc			XOX ret	רמא, פמא		
				TestDriverISR	dpuə		

Thu Jul 17 14:46:01 1997	dpc.386 %	Page 77, Thuild In 17 1 4 24 (in 1997	M 1997 dpc.386	Page 78
subtel	DriverISR	now	[ebp],IOMsgRam dx	MsgRam I/O port Get status
page		NOE	[ebp].IntStatus, eax	; Save off RBD status
**************************************	**************************************	test je	eax, EMPTY DriverISRExit	; This on ready? ; Jump if its not ready
, Name:		inc DebugM	inc [ebp].BufferCount DebugMessage1 DEBUG_ISR, DebugRBDReceived,	, Used for watchdog DebugRBDReceived, [ebp].CurrentAdapterRBD
; Description	: This routine handles packet reception.	,		
; On Entry:	EAX N/A EBX N/A	; / Jump if '; if (status	r this is an error packet "/ s & Ox8F)	
		test jne	<pre>(ebp).IntStatus, STATUS_ERROR DriverISRBadPacket</pre>	; Any error bits set? ; Jump if not
		/* Heres if (!glob	Heres a good packet. See if we have a buffer ('global_pool[curr_rbd].buf_ptr)	for it. */
	Note: Interrupts are disabled.	NOM YO	esi, [ebp].CurrentECB	is this more of
; On Return:		jne if TIMESTAMP	DriverISRAddToECB	Jump if it is.
·- ·- ·	ECX Destroyed EDX Destroyed ERP Destroyed	vom ;	al, 'r' eax Dpcmimestamo	
		, lea endif	esp, [esp + 4]	
•• ••	Flags:	Nom	esi,1514	
	Note: Interrupts disabled.	or	MSMALLOCACENCE GaX Deitortebroofe	Get an ECE
; Remarks:	This routine is called by the MSM. It is called at interrupt time.			) dump it no ech.
; See Also:	MSM\MSNInterruptProcedure	; !!!! Satelite	e header is 12 bytes, EII is 14 bytes. o offset to prevent double copy of turbo	o internet packets.
; END_MANUAL_ENTRY	ENTRY		edi, [esi+RPacketEnvelope+2] ; EDI	-> beginning
***	\** * * * * * * * * * * * * * * * * * *	NOE NOE	<pre>[esi].RPacketOffset, edi [esi].RPacketSize, 0 [ebp].CurrentECB, esi</pre>	; Store into ECB ; Clear size ; Store if split packet
align public	o DriverISR	and definition of the second o	ort DriverISRRed	
// Set the a	lveilsk bloc /* Set the adapters ram ptr to the next rbd to receive from */ outnort(bicd base addr + MSG RAM PTR, rbd base addr + 2*curr adap rbd);	mov mov add	odi, [esi].RPacketOffset edi, [esi].RPacketSize	
		DriverISRReadS	[ze:	
Debugge mov mov sh1	DEBUG_15K_ALL, 15KERCERMSG	/* ESI(curr_r) /* Retrieve t // length = inpo	<pre>/* ESI(curr_rbd) will be used a lot. Let's try to /* Retrieve the length of the packet */ length = inport(bicd_base_addr + MSG_RAM);</pre>	o keep it intact, */
add out out ; /* Keep proc	add eax, KbJ_BADEADUN ; add base(valoun) out dx, ax /* Keep processing packets until no more are left */	xor mov in	eax, eax edx, [ebp].IOMsgRam ax, dx	; Clear upper word ; Msg Ram I/O port ; Get size of packet
; /* ; * NOTE: We a	are assuming that anyone looping back to DriverISRLoop the MSR RAM PTR to the next RBD to examine.	add	(esi).RPacketSize, eax	; Add to ECB size
; */ ; while ((status	= inport (bicc	DebugMe	DebugMessagel DEBUG_ISR, DebugRBDSize, eax	
DriverISRLoop:	eax, eax ; Clear upper status	; word_lengt	word_length = (length & 3) ? (length / 4) + 1 ;	(length/4);

<pre>shr ecx, 2 test eax, 3 jz</pre>	acket 1	ECX = ECX / 4 Any left over?	) outport(D		ddr + 2*curr_adap_rbd);
	acket		shl add	edx, [ebp].IOMsgRamPtr eax, 1 eax, RBD_BASE_ADDR dx. ax	
			*	L, L	unravel */
	+ AUTO_INC, curr_adap_rbd * s	stats.config.buf_size /			
	[ebp].CurrentAdapterRBD	EAX = current adapter	; if (!(status &	EOF_BIT))	
	SIZE / 2	ECX = buffer size ECX = buffer size	Test Je	<pre>lebp).intStatus, EOF_BIT DriverISRLoop</pre>	; Last buffer? ; Jump if it wasn't
	-	EAX = EAX * EAX / 2	/* We hav	le. Pass buffers to ap	
		Set ad	filter */	* filter table address.	מממ כר ס
cld mov edx, [ebp]. rep insd rep insw /* Release an adapter outport(bicd_base_addr outport(bicd_base_addr	y fast(this was inline ass	assembly)	; for (ii = ; if (!fmer	<pre>for (ii = 0; ii &lt; BICDD_MAX_ADDR; ii++) if ('ifmemcmp( filter[ii].address, global_pool[fi</pre>	.i++) global_pool[first_buffer_rbd].buf_ptr, 6
rep insd rep insd /* Release an adapter outport(bicd_base_addr outport(bicd_base_addr		Forward march!	, && (fil	<pre>&amp;&amp; (filter[ii].channel != BICDD_NOT_USED)</pre>	
/* Release an adapter buffe outport(bicd_base_addr + M( ; outport(bicd_base_addr + M( ; outport(bicd_base_addr + M(		no port nput to string nput to string	mov lea	<pre>{ebp}.CurrentECB, 0 edi, [ebp].Filter</pre>	; Clear ECB flag ; EDI -> filter[0]
/ outport(bicd_base_addr + Mi // outport(bicd_base_addr + Mi	א מימיל מימיל בילי מימיל בילי		DriverISRFilterLoop: mov eax,	rLoop: eax, dword ptr [edi].FilterAddress+0	; EAX = 1st filter addr
	+ MSG_RAM, 0); + MSG_RAM, stats.config.buf_s	ze);	NOM DATE	edx, [esi].RPacketOffset eax, [edx+0] DriverfSRFilterNext	; EDX -> buffer ; 1st dword compare? .Tumn ; not
mov edx, [ebp].IOMsgRamPtr	[ebp].IOMsgRamPtr [ebp].CurrentAdapterRBD	Ram Ptr I/O port EAX = adapter rbd	word mov	ax, word ptr [edi].FilterAddress+4	, AX = last filter addr
eax,	DDR	EAX = EAX * 2 EAX = EAX + base	cmp jne	ax, {edx+4} DriverISRFilterNext	; last word compare; Jump if not
י מֹ טער מאי, מא	-	iam pri to adap in	.; /* We have a .; /* EDI points	We have a winner! */ EDI points to Filter entry */	
mov edx, [ebp].IOMsgRam xor eax, eax out dx, ax	igRam ;	Ram I/O port Clear status for reuse			<pre>; EAX = channel ; Valid channel? ; Jump if not</pre>
nov eax, RBD_BUFFER_SIZE out dx, ax		; buffer size ; set adapters buf size	DebugMe	LL, FilterAddrMsg,	(ec
<pre>/* Bump Current Adapter RBD value // if (++curr_adap_rbd == stats.cnof) // curr_adap_rbd = 0;</pre>	and make sure it ig.adap_rbd_num)	wraps */	set .	ESI to Rx Control entry '/ filter[ii].channel;	
; mov eax, [ebp].CurrentAdapterRBD inc eax	entAdapterRBD ;	EAX = current adap rbd Bump it	, lea	ebx, [ebp].RxControl[eax*8]	; EBX -> Rx Control entr
cmp eax, ADAP_RBD_NUM jb DriverISRRBDWrap xor eax, eax	Wn d.	Did it go over? Jump if not Force it to wrap	/* Check // for (11 :	<pre>&lt; whether length in the header matches = 0, length = 0, mm = first_buffer-rbd</pre>	the length rxed */ 1; ll < frame_buffers; ll++
DriverISRRBDWrap:   mov	apterRBD, eax SK_ALL, AdapterRBDMsg, eax	Save for later			

dpc.386   Page 82   [esi].RPacketOffset   ; ECX -> Satelite header its not a data feed address. We don't know what to do yet.	al, [ecx+0] ah, [ecx+2] al, 3 al, 3 Al, 3 Al, 3 Al, 3	al, 1 al, 1 NotDataStreamPacket mPacket: ah, Offh	go into debugger.	đọo		in EII Destination with our node address	<pre>dword ptr [ebx].MLIDNodeAddress 0], eax ord ptr [ebx].MLIDNodeAddress+4 4], ax</pre>	Source Address with (0x0a 0x0a 0x0a 0x0a 0x0a)	word ptr [edi+6], OaOah dword ptr [edi+8], OaOaOaOah word ptr [edi+6], O6O6h dword ptr [edi+8], O6O6O6O6h	in BII type field with IP type (0x08 0x00)	ptr [edi+12], 0008 ; Force IP PID(800h hi/lo) since	[esi + RFragmentCount] \(\text{xFrame}\)	ecx, word ptr [esi + RPacketEnvelope + 14 + 2] ch, cl ecx, 14 ecx, 3ch RxPacketIsPadded ecx, 3ch ::	eax, ecx eax, 400 DebugRxExit eax, febbl.LargestRx
######################################		and al, 1 cmp al, 1 jne NotDataS MightBeDataStreamPacket: ine NotPara	ata s	i.	NotDataStreamPacket;	; Fill in EII	mov eax, dwoi mov [edi+0], mov ax, word mov [edi+4],	ill in EII	mov word p mov dword mov word p mov dword	Fill in EII	mov word p DPC is unaware of it	lea ecx, [esi + push ecx call [DPCRxFrame] add esp, 4	movzx ecx, wo xchg ch, cl add ecx, 14 cmp ecx, 3c; jae RxPacke mov ecx, 3c; RxPacketIsPadded:	vvv DEBUG mov cmp jb
	; ECX = hardware size ; EDX -> packet ; EDX = header length ; we only need the word ; EDX = header length +	<pre>/*p_length+12 &gt; length // Jump if it is // ECX = length - 16 // *p_length+12 &lt; length-</pre>	; Jump if it is	/ Bump filter total coun	+ 2;	; EDX -> packet	= filter[ii]			; did header have a sequ	; Jump if not ; does filter sequence e	<pre>; jump if not ; Do they match? ; Jump if not. ; filter(ii).seq_num**</pre>	1 */; EAX -> channel ESR; Jump if no ESR	
<pre>dpc.386 gth = total length of all buffer: global_pool(first_buffer_rbd).bu igth + 12) &gt; length)     ((*p_lenging)     (*p_lenging)     (*p_lenging)       (*p_lenging)       (*p_lenging)         (*p_lenging)           (*p_lenging)                                      </pre>	ecx, [esi].RPacketSize edx, [esi].RPacketOffset edx, [edx+6] edx, 0ffffh edx, 12	edx, ecx DriverISRFilterSkipRBDsLen ecx, 16 edx, ecx	DriverISRF11terSkipRBDsLen	filter[ii].total_count++; inc [edi].FilterTotalCount	<pre>/* Check address seg numbers and update stats p_seg_num = (global_pool(first_buffer_rbd).buf_ptr)</pre>	edx, [esi].RPacketOffset eax, [edx+8]	i].seq_num &&	filter[ii].seq_count++; filter[ii].seq_num = *p_seq_num + 1;	<pre>else if (!*p_seq_num) filter[ii].seq_num = 1; else if (!filter[ii].seq_num) filter[ii].seq = *p_seq_num + 1;</pre>	eax, eax	<pre>DriverISRFilterNoPacketSeg {edi].FilterSeqNum, 0</pre>	<pre>DriverISRFilterNoFilterSeq eax, [edi].FilterSeqNum DriverISRFilterSeqNoMatch [edi].FilterSeqNum</pre>	Discard frames if it's a "stats only" channel (rx_cntl[cc].flags & BICDD_FLAGS_STATS_ONLY) ilterCallESR:  v	eax, Offiffffh DriverISRNotOurs DriverISRInternet net: edi, [esi+RPacketEnvelope]
Thu Jui 17 14:46:01 1997  /* ECX = len  p_length = ( i if ((*p_len))  ;	mov mov mov and	12 cmp ja sub cmp			/* Check // p_seq_nu	NOM NOW	if ++)		else i	, or or	je cmp	je cmp jne inc	/* Discard fram if (rx_cntl[cc] ; {  DriverISRFilterCallESR: mov eax, [eax, ear) or briverI	cmp ea jne Dr public Dri DriverISRInternet:

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Thu Jul 17 14:46:01 1997	:46:01 1997 dpc.386		Rubers (Thur of 17,14,46,01 1997	dpc.386
NOE	r [ebp].LargestRx, eax		S CONTRACT COURT OF THE CONTRACT OF THE CONTRA	
DebugRxAve:	[dqə]		Driverisskiirdriveristed: inc eax edx mov [edi].FilterSegNum, eax imp DriverISRFilterCallEG	X a a
NOM NOM	edi, (ebp)		1 terN	•
xor div	edx, edx edx, edx edilardeRx, eax		mov (eq.1).FilterSeqNum, I jmp DriverISRFilterCallES	æ
DebugRxExit			DriverISRFilterSkipRBDsLen: MSMReturnRCB DebugMessage2 DEBUG_ISR_ALL, jmp DriverISRLoop	, FilterRBDLen, ecx, edx
if TIMESTAMP	edi, 1514 IP Pecx hecx	; Max Packet size	'DriverISRNoECB: DebugMessage DEBUG_ISR, Noi jmp DriverISRBadNextRBD	NoECBMsg
call	eax DPCT esp, ecx		DriverISRBadPacket: mov esi, [ebp].IntStatus test esi, FRAMING_ERR je DriverISRCheckAbort	
JOX TINIB	eax, eax	; Good packet	DebugMessage DEBUG_ISR, Fr	FramingErrMsg
push call pop	h ebp 1 EtherTSMFastProcessGetRCB ebp DriverISRLoop	i amno :	DriverISRCheckabort: test esi, ABORT je DriverISRCheckalign	
f no ecb returned		יי יייסלי ס'גו למניל די	DebugMessage DEBUG_ISR, Ab	AbortMsg
hese	ir i ver i skurdni uwani usub	זר טמנאי אפ מסון כ מרטומ	DriverISRCheckAlign: test esi, ALIGN_ERR	
pusting push call	cours: h esi 1 eax	; Parm0 = ECB ; call ESR	DebugMessage DEBUG_ISR, Al	an AlignErrMsg
pop or je	esi eax, eax DriverISRLoop	; clean up stack ; did they keep it? ; jump if they did.	DriverISRCheckOverrun: test esi, OVERRUN_ERR	
DriverISRDi MSM	dntWa Retur	; Return it	ougMessage DEBUG_ISR,	OverrunErrMsg
jmp Driv : :DriverISRFilterNext:	an an		DriverISRCheckDES: test esi, DES_ERR je DriverISRCheckCRC	
add 1ea	edi, size FilterStruct eax, [ebp].Filter[MAX_ADDR * size	FilterStruct]	DebugMessage DEBUG_ISR, DE	DESErrMsg
dino dipo	edi, eax DriverISRFilterLoop		DriverISRCheckCRC; Pest esi CRC ERR	
Couldn't	find filter address. Clean up.		Drive	
x+3], [	rnRCB ssage6 DEBUG_ISR_ALL, FilterNone, [edx+5] DriverISRLoop	; Give ECB back, (edx+0), [edx+1], [edx+2], [e	DebugMessage DEBUG_ISR, CR( DriverISRErrorStats: DebugMessage DEBUG_ISR, Re	CRCErrMsg ReturnMsg
DriverISRFi inc inc mov jmp	lters		[ebp].IOMsgRam [ebp].CurrentA 1 RBD_BASE_ADDR	r pterRBD .

Thu Jul 17 14:46:01 1997	6:01 1997 dpc.386 lb.	Ingel85 (Thriful 17.1446)01 1997	Page 86
mov xor out	edx, [ebp],IOMsgRam eax, eax dx, ax	; EBP Preserved  ; EGI Preserved  ; EDI Preserved	
mov	eax, RBD_BUFFER_SIZE dx, ax	Flags:   ;   Note: Interrupts disabled.	
Nom.	eax, [ebp].CurrentAdapterRBD	;; Remarks: This routine is called by the MSM.	
cmp	eax eax, ADAP_RBD_NUM	; See Also: DriverEnableInterrupt	
Xox	DriveriskBadkBDWrap eax, eax	; END_MANUAL_ENTRY	
DriveriskbackBuwrap:     mov [ebp	<pre>\text{SDWrap}: \text{Cbp}.CurrentAdapterRBD, eax} \text{Cap} \text{Cap}</pre>	***************************************	/********
DebugM	DebugMessagel DEBUG_ISR_ALL, AdapterRBDMsg, eax mov edx, [ebp].IOMsgRamPtr	align 16 DriverDisableInterrupt proc	
and add	eax, 1 eax, RBD_BASE_ADDR dx, artrelion	xor eax, eax	
DriverISRExit: mov mov		DriverDisableInterrupt endp subttl DriverBnableInterrupt page	
ont	dx, ax	***************************************	\*********
MOW	eax, [ebp].CurrentAdapterRBD	; BEGIN_MANUAL_ENTRY( DriverEnableInterrupt, DPC/API/ENINT )	
out	eux, (eux)onsynam dx, ax	; Name: DriverEnableInterrupt	
DepndW	DebugMessagel DEBUG_ISR_ALL, ISRExitMsg, eax	; Description: This routine will enable the adapters ability	y to
mov	edx, {ebp].IOStatus ax, dx	) On Entry: EAX N/A	
r ret			
DriverISR subtil page	endp .1 DriverDisableInterrupt	; EDX N/A ; EBP @ Adapter Data Space ;; ESI N/A ;; EDI N/A	
****	***************************************	*/ ; Note: Interrupts are disabled.	
; BEGIN_MANUAL	BEGIN_MANUAL_ENTRY( DriverDisableInterrupt, DPC/API/DISINT )	; On Return: EAX Destroyed	
Name:	DriverDisableInterrupt		
) Description:	: This routine will disable the adapters ability to interrupt the host.		
on Entry:	EAX N/A EBX N/A	gs:	
** ** *	ECA N/A EDX N/A EDD A Adanter Data Grace	Note: Interrupts disabled,	
		; Remarks: This routine is called by the MSM.	
	 v	<pre>; See Also: DriverDisableInterrupt ;</pre>	
		; END_MANUAL_ENTRY	
; On Return:	EAX Descroyed EBX Preserved ECX Preserved		/ * * * * * * * * * * * * * * * * * * *
		align 16	

Thu Jul 17 14:46:01 1997 DriverEnableInterrupt	01 1997 Herrupt proc	dpc.386 In H. II Am. don Ban.		而1997 dpc.386 Page 8
re t			lea	
DriverEnableInterrupt public Driversupt	terrupt endp DriverReset		call or jne	usluetstackilkromname ; keturn stack ib in EBX eax, eax short ProtocolBindExit
page	1		Nom.	
***	*********	*****************	cmp jne	ű
; BEGIN_MANUAL.	BEGIN_MANUAL_ENTRY( DriverReset,	:, DPC/API/RESET )	Nom —	edx, [est] ebp, OurAdapterDataSpace
, Name:	DriverReset		a xox	ecx, ecx
; Description:	This routine will	. reset and initialize the NIC.	Nom	op: ebx, [ebp+MSMVirtualBoardLink][ecx*4]
; On Entry:	EAX N/A EBX @ Frame D	Data Space	or ja	ebx, ebx ProtocolBindNext
	N/A N/A		cmp	<pre>[ebx].MLIDBoardNumber, dx ProtocolBindNext</pre>
	ESI N/A EDI N/A	a S	NOM	eax, 1514 [ebx].MLIDMaximumSize, eax
ta ta t	Note: Interrupts	s are disabled.	Ons -	eax, 14 eax, 14 beby] MLIDMaxRecvSize, eax
; On Return:		0 if successful(otherwise points to error message)	-	
	EBX Preserved ECX Destroyed EDX Destroyed		ProtocolBindNext:	xt: ecx ecx, 4
			jb ProtocolBindExit:	roto
	 ທ			
			ProtocolBindEvent	ent endp
<u>~ ~ ~ </u>	: Interrup		ProtocolUnbindEvent	Event proc
; Remarks:	This routine is called at pa	called by the MSM media module. process time.	CPush	
; See Also:	<b>ETHERTSM\EtherTSMReset</b>	Reset	lea	2
; END_MANUAL_ENTRY	NTRY		or	bardetscackitztommanne ; Neturn Stack ID in bbk ear, ear short ProtocolUnbindExit
********	**********	*************************	/*	
; DriverReset	proc near		OUD CONTRACTOR	esi, [esp + Parm0] [esi+4], ebx ; IP Stack?
inc	[ebp].AdapterResetCount	tCount ; Increment stat counter	r. mov	٠. و
xox	eax, eax		o x	
DriverReset	dpuə		ProtocolUnbindLoop: mov ebx	
DefaultRxFrame	proc		3c	ebx, ebx ProtocolUnbindNext
ret			cmp jne	<pre>[ebx].MLIDBoardNumber, dx ProtocolUnbindNext</pre>
DefaultRxFrame	đpuə		,	eax, 1494
extrn L ProtocolBindEvent	LSLGetStackIDFromName: near ent	Name: near	von dus von	<pre>[ebx].MLIDMaximumSize, eax eax, 14 [ebx].MLIDMaxRecvSize, eax</pre>

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VOM.	נפסאן ישדודטעפכיסויפה, פסא	extrn	UnRegisterEventNotification: near	
ProtocolUnbindNext:		DriverInit	proc	
cmp ecx jb Pro ProtocolUnbindExit: ret	ecx, 4 ProtocolUnbindLoop Exit:	CPush if TIMESTAMP lea mov	eax, DPCTB timestamp_begin, eax	
ProtocolUnbindEvent	Event endp		timestamp_index, eax eax, TIMESTAMP_BUFFER_SIZE timestamp_end, eax	
subttl page	DriverInit	engir *********	**************	/* **
***		; Fill in Driver	er Parameter Block fields.	* * 1
; BEGIN_MANUAL_	BEGIN_MANUAL_ENTRY( Driverinit, DPC/API/INIT )	* * * * * * * * * * * * * * * * * * * *	***************************************	/**
, Name:	DriverInit	NOE	DriverStackPointer, esp ; Fill	1 in stack ->.
; Description:	This routine will call EtherTSMRegisterHSM, MSMParseDriverParameters, MSMRegisterHardwareOptions, MSMSetHardwareInterrupt, MSMRegisterMLID, initialize variables in the Adapter Data Space and reset/initialize the card.	lea call jnz ; Yuck! We'll !	esi, DriverParameterBlock ; ESI - EtherTSMRegisterHSM ; Get E DriverInitError ; Jump have to adjust the receive size down, since have foll 1500 byte parkets with runneling	-> Parm block. EBX. p if error.
on Entry:	EAX N/A EBX N/A ECX N/A ECX N/A EDX N/A EBP N/A ESI N/A EDI N/A	mov mov ;************************************	[ebx].MLIDMaximumSize, 1494  **********************************	/* * * * * *
••	Note: Interrupts are enabled.	*****	化化学 化化化学 化化化学 化化化学 化化化学 化化化学 化化学 化化化 化化化 化化化 化化化 化化化 化化化化 化化化化 化化化化化化	/***
On Return:	EAX 0 if successful(otherwise it points to error message) EBX Preserved ECX Destroyed EDX Preserved EBP Preserved ESI Preserved EDI Preserved	mov ss lea call	GlobalRxFreq, DEFAULT_RX_FREQ eax, NeedslOPortOBit OR NeedsInterruptOBit OR ( ecx, AdapterOptions MSMParseDriverParameters DriverInitError ; Jump	CAN_SET_NODE_ADDRE
•••••	Flags:	****	***************************************	/ * *
·- ·- ·	Note: Interrupts preserved.	, ; Let MSM Regi	Register the hardware options,	* *
, Remarks:	This routine is called by the OS at load time. It is called at process time.	** "" "" "" "" "" "" "" "" "" "" "" "" "	MSWRedisterHardwareObtions	/**
see Also:	MSM\MSMParseDriverParameters MSM\MSMRegisterHardwareOptions MSM\MSMSetHardwareInterrupts	can ja je	eax, 1 DriverInitError ; Jump i DriverInitExit ; Skip i	or Registering? p if so. p if new frame.
	MSM\MSMSchedule.TrimeCallBack MSM\MSMSchedule.TrimeCallBack MSM\MSMSchedule.AESCallBack MSM\MSMEnablePolling	,	pterDataSpace, ebp rame, offset DefaultRxFrame	; Save for later
•• ••	DriverReset	ויי מפר ש כזווופד	esource tay so that we call	
END_MANUAL_ENTRY	чтву ************************************	push push / push	TimerSignature offset TimerDesc DrivorModuleHandle AllocateRosourceTag	

Thu Jul 17 14:46:01 1997	:01 1997 dpc.386	I. In the gent term that the bargets	Than III 17 1436 (01 1997	1 1997 dpc,386	Page 92
lea	esp, {esp + (3 * 4)] {ebp}.TimerTag, eax		; Set and check	k the adapters base I/O.	* * *
10 Cr 16a	eax, eax eax, ErrorAllocatingRTagMessage		****	化化 计计算 化甲烷 法法书 医牙虫虫 计非常 医生物 医生物 化化苯基苯基 化环境 化化物 化化物	/ * * * * * * * * * * * * * * * * * * *
je ; Get a resou	je DriverInitErrorReturn resource tag for interrupts.		MOV2X MOV	ecx, [ebx].MLIDIOPortsAndLengths [ebp].IORxData, ecx	; Rx Data port = base +
	InterruptSignature offset InterruptRTagMessage	signature. Message. Modulo handl	add mov	ecx, 2 [ebp].IOAutoInc, ecx	; Auto Inc port = base +
push call	DriverModuleHandle AllocateResourceTag esp, (3 * 4)			ecx, 2 [ebp].IOStatus, ecx	; Status port = base + 4
mov		ים ש	mov	ecx, z [ebp].IOControl, ecx	; Control port = base +
J. Pea	3 ಡಿರ್ದೆಕ	; Jump if not.	add mov	ecx, 2 [ebp].IOMsgRamPtr, ecx	; Msg Ram Ptr = base + 8
; Get a resou	resource tag for event notification.		add	ecx, 2 [ebp].IOMsgRam, ecx	; Msg Ram = base + 10
usnd usnd	ssage		add	ecx, 2 [ebp].IoRbdBufLen, ecx	; RDB buf Len = base + 1
push call add	<pre>DriverModuleHandle AllocateResourceTag esp, (3 * 4)</pre>		add mov	_	; RDB Num = base + 14
mov	<pre>{ebp}.EventTag, eax eax, eax</pre>	, Save		ecx, 2 [ebp].IOBtrControlAddr, ecx	; BTR Control Addr = bas
lea je	ngRTagMessage ırn	; EAX -> Error mess. ; Jump if not.	u -	ecx, 2 [ebp].IOAEcControlAddr, ecx	; AFC Control Addr = bas
Register for	Ω,		e + 10h + 2h add	ecx, 2	a robe Control Add tim .
vom dsud	eax, [ebp].EventTag offset ProtocolBindEvent	/ Pass procedure.	base + 10h +		
hand push	0 EVENT_PRIORITY_OS EVENT DECTORY BIND	; No warning proc. ; Priority level. : Event type	+	<pre>(ebp).loAgcFirControlAddr, ecx 6h</pre>	; Agc Fir Control Addr =
push push call	froidcon_bind sterForEventNotification	; Pass resource tag. ; Register Event.	add mov	ecx, 2 [ebp].IOCrlkThrLowAddr, ecx	; Crlk Thr Low Addr = ba
add mov	eax	; Save Event ID.		ecx, 2 (ebp).IoCthAddr, ecx	; Cth Addr = base + 10h
)e mov			add mov	ecx, 2 [ebp].IOGateCountHighAddr, ecx	; Gate Count High Addr =
usnd usnd	offset ProtocolUnbindEvent 0 EVENT_PRIORITY_OS		se + 10h + add mov	Och ecx, 2 (ebp).IOCountNomLowAddr, ecx	; Count Nom Low Addr = b
push push call	ation	<pre>; Event type. ; Pass resource tag. ; Register Event.</pre>	add + mov	ecx, 2 [ebp].IOCountNomHighAddr, ecx	; Count Nom High Addr =
and mod	<pre>esp, (4 * 5)   (ebp).ProtocolUnbindID, eax   eax, eax</pre>	; Save Event ID. ; Registered? : Jump if not.	base + 10n + 1 add mov e + 10h + 12h	lon ecx, 2 [ebp].IOCountDeltaAddr, ecx	; Count Delta Addr = bas
DriverInitNoBindEvent:	indEvent:	, ,	, E	ecx, 2 [ebp].IOSweepRateAddr, ecx	/ Sweep Rate Addr = base
vom	eax, 1494 [ebx].MLIDMaximumSize, eax eax, 14	; Just take the max down	+	ecx, 2 [ebp].IOCrlkControlAddr, ecx	; Crlk Control Addr = ba
лош лош	<pre>[ebx].MLIDMaxRecvSize, eax [ebx].MLIDRecvSize, eax</pre>		, se + lun + lun     add   mov		; Synth Sor Control Addr
DriverInitSetPorts:	Ports:		= base + 10h add	+	: Spare 10 Control Addr
***	医生生蛋白质 医天然多的性性 医皮肤皮肤 化水子 经投资 医大利氏性皮肤性皮肤性皮肤性皮肤性皮肤的		2		

_			the third three three than that I Talk the XXX	Page 93 Inc. Jul. 7. 14546 311 1997	u 1997 apc. 500	Page 94
n Dase	+ 10h + 1ah add ec mov [e	x, 2 bp].IOBaAdO£fsetControlAddr.	; IO DA Offset Control A	popmov	eax dx, 279h dx, al	
= ddr	base + 10 add	0h + 1ch ecx, 2		; ; Make sure th	that we can set spare output	
10h +	mov 1eh add	<pre>[ebp].lOUnitiDAddr, ecx ecx, 2</pre>	; Unit ID Addr = base +		edx, [ebp].IOControl eax, CNTL_SOUTPUT	; Set Spare Output
	XXXXX	ecx. [ebx].MLIDIOPortsAndLengths		out	ro .	
	MOV		; AL = 0bh	Nom		
	cub.	ecx, 100h	; I/O port 100h?	ur T	ax, dx	
	je dec	SetPort al	; yes ; At = Oah	test	eax, STAT_SOUTPUT eax, offset MsqlOSetFailed	
	d mo	ecx, 140h	; I/O port 140h?	je	DriverInitErrorReturn	
	je dec	SetPort al	; yes ; AL = 9	; Make sure th	that we can clear spare output	
	dwo	ecx, 180h	; I/O port 180h?			,
	Je Je	SetPort al	yes AL = 8	>0E	edx, [ebp].IOControl eax. 0	; Clear Spare Output
	dwo.	ecx, 1c0h	; I/O port 1c0h?	ont	ro.	
	Je dec	SetPort al	; yes ; AL = 7	Mov	edx, [ebp].IOStatus	
	cmp	ecx, 200h	; I/O port 200h?	in		
	Je dec	SetPort al	Yes AL = 6	mov	eax, sTAT_SOUTFUT eax, offset MsqIOClearFailed	
	dwo	ecx, 240h	; I/O port 240h?		w	
	Je Ged	SetPort al	. Yes . At a 5	; ; If no node o	override, default it.	
	C U	ecx, 280h	; I/O port 280h? .			
	e 6	SetPort	Yes PI = 4	Cimp Cimp	aword ptr (ebx).MLibNodeAddress,	1
·—	c duo	ecx, 2c0h	; I/O port 2c0h?	Nom Nom	[ebx].MLIDNodeAddress+0, 00h	
		SetPort	. Yes	Mov	[ebx].MLIDNodeAddress+1, 80h	
	CIED CIED	ecx, 300h	; I/O port 300h?	AOH AOH	[ebx].MLIDNodeAddress+3, 00h	
	je,	SetPort	yes	NOE .	[ebx].MLIDNodeAddress+4, 00h	
	cmo	ecx, 340h	; Ab = 2 ; I/O port 340h?	2011	ito 'ctesa mononorum' [xga]	
	je	SetPort		NodeIsSet:		
	dec	a.i. ecx. 380h	; AL = 1 : I/O port 380h?	********	*******	\****************
	e e	SetPort				*
	dec	al	; AL = 0	; Download the	MIPS code to the adatper.	* *
sectore:	T I I	dx, 279h		********	********************	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
:	out	dx, al	; Set Base I/O port		edy (ebn) 10Control	TO T
; Lets	Reset	the adapter.	-	> OE	eax, CNTL_AUTO_INC	
<u>.                                    </u>	ysna	e xax	-	ont	dx, ax	
				NOW.	edx, [ebp].IOMsgRamPtr	Set Adapter Ram Address
	NOM MOV	eax, (ebp);10conclor eax, CNTL_MRESET		out	- CD	3
	ont	dx, ax	-	NO.	edx. (ebc) TOMsagamptr	. Set Adamter Rem Address
	MOV	eax, [ebp].TimerTag		xox		zero
	ysnd	eax 2	-	out	dx, ax	
	call	DelayMyself	-	мош		£ w
	ಇರೆಡೆ	esp, (2 * 4)		mov lea	edx, (ebp).10MsgRam esi, MipsCode	; adapter ram port ; ESI -> mips code
	МОМ	edx, {ebp}.IOControl		cld		
	out	dx, ax		lodsw lodsw		Got Mips Word
			_	o no	מא, מא	send to anaboat

Thu Jul 17 14:46:01 1997	01 1997 dpc.386	E. L. E. C. C. E. L. P. P. C.	Timijai izakia6.	H 1997 dpc.386 Page 96
dec jnz	ecx CopyToAdapterLoop		dec jnz	ecx SetupBuffersLoop
; Verify the d	download by reading the data back		; Enable the adapter	Japter.
mov mov	edx, [ebp].IOControl eax, CNTL_AUTO_INC dx, ax	; Set to auto-increment mode		ecx. [ebx].MLIDInterrupt esi, CNTL_IRQ1 edx, 0.
mov xor out	edx, [ebp].IOMsgRamPtr eax, eax dx, ax	; Set Adapter Ram Address ; to zero	cmp je mov mov	ecx, an EnableDPC esi, CNTL_IRQ4 edx, 10h
mov mov lea	ecx, MipsCodeSize edx, [ebp].10MsgRam esi, MipsCode	Number of words to copy adapter ram port ESI -> mips code	cmp je mov mov	ecx, 4 EnableDPC esi, CWTL_IRQ5 edx, 20h
VerifyAdapterLoop: xor ea	x, eax	, Get Mips Word	je nov nov	EnableDPC esi, CNTL_IRQ9 edx, 2h
incomp	dx dx eax MsgBadRAM	; Send it to adapter	je nov nov	
jne dec jnz	DriverInitErrorReturn ecx VerifyAdapterLoop		cmp je mov	_
***	******************************	*********	dmp	edx, 8h edx, 11
; Register our	Register our interrupt handler with the OS.	/**	Je mov mov cmp	bnablebr. eds, CNTL_IRQ12 eds, 10h ecs, 12
, mov	edx, [ebp].IOStatus ax, dx	; Clear old errors	je mov mov	EnableDPC esi, CNTL_IRQ15 edx, 80h
; Set RBD base	address	-	EnableDFC: mov	[ebp].PicMask, edx
and	odx, [ohp] JORbulband eax, RBD_BASE_ADDR dx, ax edx, [ebp].IOMsgRamPtr		mov mov cmp jb	[cbp] PicUnMask, edx [cbp] PicAddress, 21h [cbx] MLIDInterrupt, 8 ClearOurInterrupt
mo mo o o o o o o o o o o o o o o o o o			ClearOurInterrupt mov e in a and e out d	dx, [ebp].PicAddi 1, dx ax, [ebp].PicUnMe x, al
mov mov mov	edx, [ebp].IORbdBufLen eax, RBD_BUFFER_SIZE dx, ax edx, [ebp].IOControl		mov mov or R CNTL_AUTO_INC	
mov	eax, CNTL_AUTO_INC dx, ax		mov	[ebp].IOEnableValue, eax DebuqMask, 0
mov er  SetupBuffersLoop:   xor er   out d	edx, [ebp].IOMsgRam nop: eax, eax dx, ax		je push 1ea push push	OpenScreenExit 4e524353h eax, ScreenResourceName eax DriverModuleHandle
mov	eax, RBD_BUFFER_SIZE dx, ax	-	call lea or	AllocateResourceTag esp, [esp + (3 * 4)] eax, eax

Thu Jul 17 14:46:01 1997	6:01 1997 dpc.386	in the first good for a line was the same one	Page 97 "Thing de 17" 14 4 46401 1997	II 1997 dpc.386	186 Page 98
je	OpenScreenExit		p p q q	size FilterStru	
mov	ScreenRTag, eax		o de composition de c	eck InitFilterLoop	
1			***************************************		
usna		; Bornen Resource Tag	t t	*** ***	
hand	offset ScreenName	Name of screen	; Test Interrupts,	ots.	
call	creen				
lea	esp, [esp + (3 * 4)]		****	************	\****************
jne	OpenScreenExit		•••		
			Set	ISR to test routine.	
usnd usnd	offset NLMName		••		į
usnd	o DriverModuleHandle		)OE	[ebp].Gotinterrupt, 0 ;	Clea
call	Getnimames		your .	eck, lenglitakiag	. No Extragolation result
lea	esp, [esp + (3 * 4)]		usnd	, 0	; ShareFlaq.
-	•		usnd	0	; End of chain flag.
nsnd	Offset Day		usnd .		; ISR Resource tag.
usna	מיני גריני		nush	eak, lestDilverion	0 0 0 t
usnd			XZVOH	eax, [ebx].MLIDInterrupt	: EAX = Interrupt number.
usnđ	0		usnd '		Interrupt Number,
usnd	offset MinorVer		call	SetHardwareInterrupt	; Set interrupt.
usnd	offset MajorVer		] ea	esp, [esp + (6 * 4)]	
push	DriverModuleHandle		io.	eax	Error setting interrupt?
1 40 C	Mvers		eg 1 ⊕ 1	•-	EAX -> Error Message.
# #	t		zuC	DriverInitErrorReturn ;	Exic if so.
hsnd	Year		NOW.		
ysnd	Day		NOM.	eax, [ebp].IOEnableValue	
ysnď	Month		or		
push	Minorver		ont	dx, ax	
using Hsild	Majorver Offset Nimbame		i b		
usnd d	offset DebugScreenHeader		NOM	eax. [ebp].TimerTag	
hsnd	DPCScreen		ysnd	×	
call	tToScreen		usnd .	18	
ਲ ∌ <b>→</b>			ן דמט מטיי	DelayMyseit	
OpenScreenExit:	ï		011	F 7 7000	
***					
			X Z A G	eax, [ebx].MblDinterrupt adx mestDriverISB	
; Initialize ExControl	RxControl and Filter entries.	*	par		Pass ISB Entry point
			hsnd	eax	
k k		k k k	රය]] ] වන	ClearHardwareInterrupt esp (esp + (2 * 4))	; Give interrupt back,
			5		
MOV			MOV		
XOX	eax, eax		out	ďx, ax	
InitExControlLoop:	è		lea	eax. NoInterruptMsg	00000000 TCTTR
NOM	[edi].RxChannel, edx		O E D		Did we get it?
wom.	.RXESR, eax		, e į	 E	Jump if not.
add	edi, size RX_CNTL		~		
dec	ecx Heritan		*****	经收收收益额 经收款 化水杨烷 医阴茎 医阴茎 计对象 医乳状管炎	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
9116	THICKNOTICEOTROOP			-> Frame Data Space(Config Table)	• •
lea			; EBP -> Adapte	Adapter Data Space.	*
mov Triffilter[.con.	ecx, MAX_ADDR		. Lot MCM Cot u	TOTAL OF THE TANK TOTAL	• •
NOM.	_		200	מוכאסום דוונטונסטיי	*
MOV	[edi].FilterTotalCount, eax		****	化分类 化拉洛 医水管 医生化 最终的 医含化盐 医医布里 医医皮肤	\*****************
NOM:	[edi].filterSedvom. eax		call	MSMSetHardwareInterrupt	•
-					

711C	Utvertill calt of				
* .		) dump it error.	mov DPCScreen, 0 DriverInitErrorScreenClosed:	DPCScreen, 0 rScreenClosed:	
	· 化水子 计分类 医牙骨 医牙髓性 医牙髓性 医牙髓性 医牙髓性 医牙髓性 医牙髓性	**********	đođ	eax	; EAX -> Error message.
	ount to make TSM happy. ***********************************	* * ****	DriverInitError mov call	r: esi, eax MSMPrintString	; ESI -> Error message. ; Display message
; mov ultaneously.	[ebp].MSMTxFreeCount, 32	; Allow 32 transmits sim	or CPop	eax, 1	; Do not load return code.
NOM	eax, 1	; Schedule call back in 18 ticks	ret		
call jnz	MSMScheduleIntTimeCallBack DriverInitError	if error,	DriverInit subtel	endp DriverShutdown	
call jnz	DriverReset DriverInitErrorReturn ; Exit	; Initialize NIC. if error reseting.	page	****	
wow	[ebp].FirstTimeInit, 0	; Disable DriverReset from ; testing the hardware again.	; BEGIN_MANUAL_ENTRY(	DriverShutdown,	DPC/API/SHUTDOWN )
dec	[ebp].AdapterResetCount	; Adjust reset count.	/ Name: / / Description.	Drivershutdown This routine will turn off	ff the MTC
call jnz	MSMRegisterMLID ; Register DriverInitError ; Jump if	Register MLID. Jump if error.	on Entry:	3	
; Lets	s see if the adapter is locked up.		•• ••		ice ihutdown
vom deug deugh	eax, [ebp].TimerTag eax 18		** ** ** ** *	EDX N/A EBP @ Adapter Data S ESI N/A EDI N/A	Space
add	esp, (2 * 4)		• ••	Note: Interrupts are d	disabled.
call test lea jne	RefreshMipsStats [ebp].MipsRxEnables, 8000000h eax, LockedAdapterMsg DriverInitErrorReturn	; This shouldn't be big	on Return:	EAX 0 if successful EBX Preserved ECX Preserved EDX Destroyed FRP Preserved	
cmp je movzx push	Debug Drive eax, eax			:. SD	
movzx	u	31		Note: Interrupts preserved	rved.
push push call	orise DPCSc Outpu		Remarks:	This routine is called b	by the MSM media module. s time.
5 H	r dept dep		; See Also:	ETHERTSM\EtherTSMShutdown	٤
DriverInitExit: mov xor CPop	t: [ebx].MLIDMaxŘecvSize, 1400 eax, eax		END_MANUAL_ENTRY	VTR.Y	
DriverInitErrorReturn: push eax call MSMRet mov eax, D or eax, D	orReturn: eax MSMReturnDriverResources eax, DPCScreen eax, eax DriverInitErrorScreenClosed	; Save error message. ; Return resources.	DriverShutdown or jne mov or or je	proc ecx, ecx DriverShutdownAdapter eax, [ebp].AgentRemoveRoutine eax, eax	utine
push call lea	eax CloseScreen esp, {esp + (1 * 4)}		call	×ee	

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Nom	(ebp).AgentRemoveRoutine, 0			EDI N/A	
DriverShutdownAdapter:	Adapter:			Note: Interrupts are in any state.	
pushfd cli mov xor out	edx, [ebp].IOControl eax, eax dx, ax		on Return:	EAX Destroyed EBX Preserved ECX Destroyed EDX Destroyed EBP Preserved	
wow	edx, [ebp].IOStatus ax, dx			ESI Preserved EDI Preserved	
or jne			<u> </u>	Flags: Note: Interrupts preserved.	
mov mov	edx, [ebp].IOControl eax, CNTL_MRESET dx, ax		Remarks:	routine is cal	
MOV	eax, DPCScreen eax, eax		See Also: MS; END_MANUAL_ENTRY	MSM\MSMDriverRemove sutry	
je push	DriverShutdownScreenClosed eax	ed	***	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
call lea mov	CloseScreen esp, [esp + (1 * 4)] DPCScreen, 0		; ; DriverRemove	proc	<del></del>
DriverShutdownScreenClosed: mov eax, [ebp]. or eax, eax	<pre>ScreenClosed: eax, [ebp].ProtocolBindID eax, eax</pre>	Ω	CPush mov call CPop	eax, DriverModuleHandle MSMDriverRemove	·
je push call add	DriverShutdownExit eax UnRegisterEventNotification esp, (1 * 4)	; Pass Event ID. ion ; Unregister event. ; Clean up stack.	~	endp	
mov or je push call	eax, [ebp].ProtocolUnbindID eax, eax DriverShutdownExit eax UnRegisterEventNotification esp, (1 * 4)	dID  ; Pass Event ID. ; Unregister event. ; Clean up stack.	OSCODE ends		
DriverShutdownExit: popfd xor eax	sxit: eax, eax	••			
DriverShutdown subtel page	endp DriverRemove				
; ************************************	**************************************	**************************************			
; Name:	DriverRemove				
; Description:	This routine call the MSN	call the MSM to return our resources.	* ***		
on Entry:	EAX N/A EBX N/A ECX N/A EDX N/A EBP N/A ESI N/A	,			

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    void Signal (void) ( SignalLocalSemaphore(handle); )
LONG Wait(int milliseconds = (-1)) ( return TimedWaitOnLocalSemaphore(handle,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Semaphore(long initial = 0) ( handle = OpenLocalSemaphore(initial); )
~Semaphore() ( if (handle) CloseLocalSemaphore(handle); )
                                                                                                                                                                                                                                                                                                                                                                                                         Returns whether the adapter can gain access to the passed group ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * Returns a version number which increments when there have been
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LONG value(void) ( return ExamineLocalSemaphore(handle); )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               := NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if(find_pacau(cfg->groupid, cfg->ver) != NULL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if(find_ecau(cfg->groupid, cfg->ver) != NULL)
    return(CAS_EXPLICIT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         * ANY changes to the adapter's conditional access
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ( DPCFilePID = GetThreadID(); )
( DPCFilePID = 0; )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if(find_dacau(cfg->groupid, cfg->ver)
       dpcpd.cpp
                                               return DloPMaxBufferSize - DloPXmitCount;
                                                                                                                                                                                                                                                                                                                                                                                                                               * The group ID includes a version number.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 long DLLAPI CDBCheckGroupID(CdbCfg_t *cfg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        return (CAS_AUTHENTICATED);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    inline LONG Semaphore;:operator -- (void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return (CAS_IMPLICIT);
                                                                                                                              DWORD DloExtendInactivityTimer(long)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             long DLLAPI CDBCheckCAChange(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WaitOnLocalSemaphore(handle);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SfxDispatcher* pDispatcher;
QUEUFVIEWER* pQueueViewer;
ECBQueue DPCPDQueue;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return(CAS_ERROR);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return CDBVersion;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Semaphore * DPCPDSemaphore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LONG operator -- (void);
                                                                                                                                                                                                                                                                                              void DloDispatch(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (LONG)milliseconds); }
                                                                                                                                                                                                              vold DloHangup(void)
There thanked that 446 is 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                LONG v = value();
if (v == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      struct Semaphore (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return v - 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             struct PID (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ~PID()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PID()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return (Dlostate == DLOS_CONN && DloConn == DLO_CONN_PACKAGE) ? DLOS_CONN : DL · (
L_IDLE;
/* interface between Helius DPCNE and Hughes DPCPE */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pStatus->iXmitBufferSpace = DloPMaxBufferSize;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             pStatus->iXmitBytesBuffered = DloPXmitCount;
  dpcpd.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pStatus->iRcvBytesBuffered = DloRcvCount;
pStatus->iRcvBufferSpace = DLOBUFSIZE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           // thread
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return clock() * 1000 / CLOCKS_PER_SEC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pStatus->iState = DloGetCurrentState();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DloGetStatus(tDloStatus* pStatus)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        unsigned long GetTickCount(void) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       extern LONG DloPxmitCount;
extern LONG DloPMaxBufferSize;
extern LONG DloRcvCount;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     int DloPortOpen(void) (
   return AIOPortHandle != (-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                int DloGetCurrentState(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ö
                                                                                                                                                                                                                                                                                                                                                                                                                             void DPCFDBackground(void);
void DPCFileMain(void* arg)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          return DloAndCommEmpty();
                                                                                                                                                                                                                                                                                                                                                                         void DloHangup(void);
void DPCPDTerminate(void);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return DloPXmitCount ==
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              int DloGetBufSize(void) (
                                                                                                                                                  #include "sys_win.hhi"
#include "dpcutils.h"
#include "dbsinwin.h"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 int DloPortEmpty(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #include "sfxwatch.h"
#include "sfxqview.h"
#include "sfxparsr.h"
                                                                                                                            #include <nwsemaph.h>
                                                                                                                                                                                                                                                                  #include "dpcagent.h"
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (!DloPortOpen())
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     extern int DloState;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         extern LONG DloConn;
                                                                                                                                                                                                                                                                                              #include <assert.h>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (pStatus == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return DloState;
                                                                                                                                                                                                                                                                                                                                                  int PD_ESR(ECB*);
                                                                                                                                                                                                                                     #undef VIRTUAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return (-1)
```

OS\_IDLE;

#else

#endi£

tendif

#else

return 0;

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memcmp(&Elements[k].e_mac, &mac, sizeof(mac)) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for(k = 0; k < MAXELEMENTS; k++) {
   if(Elements[k].in_use == 'Y' &&
   memcmp(&Elements[k].e_mac, &mac, sizeof(mac)) == 0)</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     for(k = 0; k < MAXELEMENTS; k++) (
  if(Elements[k].in_use == 'Y' &&
    memcmp(&Elements[k].e_id, &id, sizeof(id)) == 0 &&
    Elements[k].e_ver == ver) (</pre>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    memcpy(&Elements[k].e_mac, &mac, sizeof(mac));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   static find_element_id(ID id, unsigned char ver)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            memcpy(&Elements[k].e_id, &id, sizeof(id));
  dpcpd.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         'static del_element_by_mac(MACaddr_t mac)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Elements(k].in_use = 'Y';
Elements(k].packfeed = pack_feed;
                                                                                                                 for (k = 0; k < MAXELEMENTS; k++) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               if(find_element_by_mac(mac) != -1)
return(CAS_DUPLICATE_ADDR);
                                                                                                                                         if(Elements[k].in_use == 'Y' &&
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             for (k = 0); k < MAXELEMENTS; k++)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Elements[k].channel = channel;
Elements[k].e_ver = ver;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   if(Elements[k].in_use (= 'Y')
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Elements \{k\}.in_use = 'N';
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int k, ret = CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                                                                                    int k, ret = CAS_OK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (k == MAXELEMENTS)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ret = CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ret = CAS_OK;
                                                                   int ret = -1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            int ret = -1;
                                                                                                                                                                                            ret = k;
                                                                                                                                                                                                                                                                                            return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return ret;
                                                                                                                                                                                                                    break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           break;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      else (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   х
::
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   int
Pr La line from the last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           // there is actually an overflow here IRT channel being a short!
long ret = DIOOpenChannel(channel_config->address(0),
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (LONG*)&channel_config->channel);
                                                                                                                                                                                                                                                                                                                                                                                                                               long BicddopenChannel(BICDD_CHANNEL_CONFIG* channel_config) if (channel_config->num addron--'.'.'.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DPCPDQueue.semaphore = DPCPDSemaphore->handle;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ( Elements Table support
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     long BicddCloseChannel(unsigned long channel) (
dpcpd.cpp
                                                                                                                                                                                                                                                             return DIOSignText(p_string, size, p_sign);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ELEMENTS SECTION
                                                                                       Enqueue_IntsDisabled(&DPCPDQueue, ecb);
return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (channel_config->num_addresses != 1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             matic find element by mac (MAC adds t mac)
                                                                                                                                                                                   long BicddSignText(char* p_string,
unsigned long size,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             long ret = DIOCloseChannel(channel);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (DPCPDSemaphore->handle == 0) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ECB* ecb = Dequeue (&DPCPDQueue);
                                                                                                                                                                                                                                                                                                                      DIOGETSN(p_serial_num);
return 0.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DPCPDSemaphore = new Semaphore();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CDBelement_t Elements[MAXELEMENTS];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PD_ESR,
                                                                                                                                                                                                                                     char* p_sign)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DPCPDQueue.semaphore = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DPCPDQueue.semaphore = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   delete DPCPDSemaphore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 delete DPCPDSemaphore;
DPCPDSemaphore = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CLSLReturnRcvECB(ecb);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         while (DPCPDQueue.head)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 delete DPCPDSemaphore;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DPCPDSemaphore = 0;
                                                                                                                                                                                                                                                                                                                               long BicddGetSN(char*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DPCPDSemaphore = 0;
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                                                                 int PD_ESR(ECB* ecb)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       return 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (ret) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     if (ret)
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if (DIODeleteAddress(cfg->channel, (BYTE*)&Elements(element).e_mac))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     // The name of the registry/ini key values accessed in this module
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        if (DPCPDQueue.head == 0 && DPCPDSemaphore->Wait(timeout) |= 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BOOL BicddGetSatelliteStatus(BICDD_SAT_STATS* Stats, long chan) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      p_buffers->data_size = ecb->ECB_Fragment(0).FragmentLength;
p_buffers->buf_ptr = ecb->ECB_Fragment(0).FragmentAddress;
p_buffers->last = 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                static char* pREGKEY_Dolet&OnDalivery = "Delet&OnDelivery";
static char* pREGKEY_CooperativeLoading";
static char* pREGKEY_RebuildOnStartup = "RebuildOnStartup";
                                                                                                                                            int element = find_element_id(cfg->elementid, cfg->ver);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return DPCPDSemaphore ? DPCPDSemaphore->value() : (-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       int n = buf_size / sizeof(BICDD_BUFFER);
for (; ecb && n > 0; ecb = ecb->ECB_NextLink,
                                                                                                                                                                                                                                                                                                                                                                                    del_element_by_mac(Elements[element].e_mac);
return CAS_OK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Stats->CurrentValue = DPCGetSignalStrength();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unsigned long buf_size)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Stats->MarginalCutoff = MARGINAL_ACQ_VALUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              long BicddFreeBuffers(unsigned long channel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int i = min(n, DPCPDSemaphore->value());
for (; n > 0 && DPCPDQueue.head; --n)
CLSLReturnRcvECB(Dequeue(&DPCPDQueue));
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   BICDD_BUFFER* p_buffers, unsigned long buf_size,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        / sizeof(BICDD_BUFFER);
Page 5.17hu 3.41 17.14.46412 1997 dpcpd lim in lim 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Stats->NormalCutoff = NORMAL_ACQ_VALUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               channel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                channel) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         strncpy(buffer, (char*)SiteID, 9);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         BICDD_BUFFER*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        long BicddGetSiteID(char* buffer) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 return r * sizeof(BICDD_BUFFER);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     long BicddReceive(unsigned long BICDD_BUFFER*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    long timeout)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ECB* ecb = DPCPDQueue, head;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           long BicddPoll(unsigned long
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (DPCPDSemaphore ≈= 0)
                                                                                                                                                                                     if (element == (-1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   for (; i > 0; --i)
    --*DPCPDSemaphore;
                                                                                                                                                                                                                                       return CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                           return CAS_ERROR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        int n = buf_size
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return (-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ++p_buffers;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                return (-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              if (!*SiteID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  int r = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           return n;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    return 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * reception of a for-sale package (a package from an explicit group).
* Package delivery passes address to be received (including the version number)
                                                                                                                                                                                                                                                                                                                                                                                                                   * address. Caller supplies the address's elementID and version number and the * element's group ID and version number. CDB looks up the group key and * element key for the address and attempts to add the address via a
                                                                                                                 *************************
                                                                                                                                                                                                                                                                                                                                                                           request reseption of a single additional DPC MAC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        * plus the group key to be used to receive the package. This group key was
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 pacau = dacau ? (MUXpacau_t*)dacau : find_pacau(cfg->groupid, cfg->ver);
if (pacau == NULL)
    return CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                * Allows the application to discontinue reception of a single DPC MAC * Package Delivery supplies the element id and version number. CDB merely * reformats these values into a DPC MAC address and relays it to WINBICDD.
                      The sun tree sun me sun
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         if (add_element(cfg->channel, cfg->elementid, cfg->ver, cfg->mac, 'P'))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ( ( , d ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   * CDB creates the corresponding element key and calls WBicddAddress.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   make_element_id((BYTE*)&cfg->elementid, e_id_txt);
MACbuildAddr(e_id_txt, MAC_PKG, cfg->ver, &cfg->mac);
if (add_element(cfg->channel, cfg->elementid, cfg->ver, cfg->mac,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       * For use by package delivery. Allows an application to request
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (BYTE*)&cfg->expl_g_key) == ESUCCESS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          * received via explicit request transaction with the NOC.
                           į wis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MACbuildAddr(e_id_txt, MAC_PKG, cfg->ver, &cfg->mac);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              make_element_id((BYTE*)&cfg->elementid, e_id_txt);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (BYTE*)&cfg->mac,
(BYTE*)&pacau->g_key)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               dacau = find_dacau(cfg->groupid, cfg->ver);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if(find_ecau(cfg->groupid, cfg->ver) == 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (BYTE*)&cfg->mac,
                                                                                                                                                                       * Add / Delete Package Delivery Address
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             if (DIOAddGroupAddress(cfg->channel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             long BicddAddPKGAddr(CdbCfg_t* cfg) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      if (DIOAddGroupAddress(cfg->channel,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       long BicddAddExpAddr(CdbCfg_t* cfg) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      del_element_by_mac(cfg->mac);
return CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              del_element_by_mac(cfg->mac);
return CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                           * Allows an application to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return CAS_ERROR;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MUXpacau_t* pacau;
MUXdacau_t* dacau;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               return CAS_ERROR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        char e_id_txt[7];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return CAS_ERROR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   e_id_txt[7];
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return CAS_OK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return CAS_OK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ESUCCESS)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       driver call
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   char
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Page 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fsm.isForSale(fileID) ? SFXFSM_PURCHASE : SFXFSM_FILE_WANTE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DBS_SEND_TRACE1(0, "File database rebuilt with %d entries restored", n);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 if ((arg && stricmp((char*)arg, "rebuild") == ESUCCESS) | |
DPCGetProfileInt(PROF_PACKAGEDELIVERY, pREGKEY_RebuildonStartup, 0)
DPCSetProfileInt(PROF_PACKAGEDELIVERY, pREGKEY_RebuildonStartup, 0);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         pDispatcherLro = new SfxDispatcherLro();
if ('pDispatcherLro) {
    DBS_SEND_ERROR(DBS_FATAL, "Could not construct SfxDispatcherLro");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                // this is adapted from sfxdemlp.cpp WinMain and dpcfile.c DPCFileMain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               else if (crossover.cancel) (
    crossover.ret * fsm.dispatch(fileID, SFXFSM_FILE_NOT_WANTED);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ! = SFX_OK)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               fsm.unique(fileID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DBS_SEND_TRACE("File database rebuild failed");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          pDispatcher->CancelLoadingFileID(fileID);
   dpcpd.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fsm.dispatch(fileID, SFXFSM_PRECOMMIT);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     else if (fsm.isRequestable(fileID))
                                                                                                                                                                                                                                                                                                                                                                                                                    if (crossover.control) {
  LONG fileID = crossover.fileID;
  if (fileID != fsm.getFileid() &&
        crossover.ret = (LONG)(-1);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        // wait until DIOBoard initialized
while (DIOBoard == 0) (
if (ExitingFlag)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ResumeThread (crossover.control);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                void DPCFileMain(void* arg) (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fsm.dispatch(fileID,
                                                                                                                                                              pDispatcher->Terminate();
                                                                                                                                                                                                                                                                                             void DPCPDBackground(void)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              crossover.control = 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           int n = fsm.Rebuild();
                                                                                                                       void DPCPDTerminate(void)
                                                                                                                                                                                                                                                                                                                                         PDI_FillList_cross();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  DbsProcInit("DPCPD");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (!PackageDelivery)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     crossover.ret =
   Page Tilffe Jul 17 1446:12 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            goto cleanup;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           if (n >= 0)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      delay(500);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         return;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              else (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           sendret:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PID pid;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .
G
                                                                                                                                                                                                                                                                                                                                                                            File ID of file to cancel
The first fi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              This routine cancels the download of the file associated with the fileID if one is pending. This means closing any open file handles and stoping the modem thread.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          if download was canceled
                                                               dpcpd.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          /* Force the help package status to idle */
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ************
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DPCCancelDownload (LONG fileID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       crossover.fileID = fileID;
crossover.cancel = FALSE;
crossover.control = GetThreadID();
while (crossover.control)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                crossover.control = GetThreadID();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LONG DPCCancelDownload(LONG fileID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LONG DPCDownloadAFile(LONG fileID)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             crossover.fileID = fileID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         while (crossover.control)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               while (crossover.control)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        crossover.cancel = TRUE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    EXPORTED FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       nothing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     return crossover.ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fileID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             return crossover.ret;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      UpdateHelpPortal();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Description:
   Thu Jul 17 14:46:12 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Returns
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   delay(100);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Output:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                control;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        fileID;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              delay(100);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         delay(100);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Input:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LONG fileID;
BOOL cancel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     static struct
LONG control
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           delay(100)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               crossover;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ret;
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pDispatcher = new SfxDispatcher();
if (!pDispatcher) (
    DBS_SEND_ERROR(DBS_FATAL, "Could not construct SfxDispatcher");
    goto cleanup;
                                                                                                                                                                                                                                                                                                          if (DPCGetProfileInt(PROF_PACKAGEDELIVERY, preGKEY_Reconcile, 1))
fsm.ReconcileWith(frd);
cdb.rebuildDB();
                                                                                                                                                             pQueueViewer = new QUEUEVIEWER(PDI_UpdateDisplay);
if (!pQueueViewer) (
    DBS_SEND_ERROR(DBS_FATAL, "Could not construct QUEUEVIEWER");
    goto cleanup;
    dpcpd.cpp
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   pDispatcher->Stop(5000);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cleanup:
delete pQueueViewer;
delete pDispatcher;
delete pDispatcheriro;
                                                                                                                                                                                                                                                                                                                                                                                               while (!ExitingFlag) (
pDispatcher->Run();
DPCPDBackground();
Thu Jul 17 14:46:12 1997
```